

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIEMMPEFQKSSVRIK NPTRVEEHCGLIKGGAACLQIIT DFDMTLRSFSYKGKRCPTCHNI IDNCK\RLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVLEEVIQQA GVYHPNVKVVS NFMD FDETGV LKGFGELI\HVFKNKHDGALRN TEYFQSN*KTNSNIILLG\DSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVL\VQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVS LPS SWWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGTPASQ QGLWTQLPRSFQRPWPKSSSR PGNGPGRAASRPRAQLRPLGG LSRFNDGHNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPQPRLL RGTDCCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTQPCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFSSMNH TLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRV SAGTGRVPSCLCH SGAWNRLDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGIKAPHKYFIRSI FFFFLRQS/LYSIAQGGVQWGN LGSLQPPSPGFKQLSCLSLPSSW NYRCAPPCPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGAQHIADAQ CDRKGHRTTIQGS RVNLVQPSV GPKVEETQCWGPGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITRGRASAAVP CRSGGARRGGAGGQAADCGPG H*KESES RGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIWIWK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVILKG*DSRTKMGDQQPP RVHGRTHGPLQPLTPVKGGGS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFSLSGLLGPCTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITFHVPTANVLVVDL MCHLEKLAKYDDIKMKVQQA LEGPL\KGILDYTEQQVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSRNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCSATSPGPACQSSA HSPSPRLQAPPPPTSS\SGSSVPE AATAPLAASARRGTPRPRTGRP SWAGTRQGSWAGTQRPWWWA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAALGLGGRGPDVALHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSTPGIPQPIVC CVYAESGARDSGQP/PSKVVPVS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPPGLPGGQGPPTW MKVETITQQTNTGTENRVFSL LYMTISKQYLSEEQGSWLSC INALQAFFSNAAIWLVTWFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPSPGPKGSPGFPRY A\GLLGQPGSRGSIGTHGTIS*/ G/LPTKQRRGPVGPPTPERD GSKGERGAPGRGSPGPPGSFD FLLLMLADIRNDITELQEKVFG HRTSSAEFFLPQEFPSYPETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGN SPLSGV WPSGDWEDKHS Q*CPVVCSPQNILSQT SRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSDA YQPKK SFDANGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCWTFQHNVSDFSSCSA PTQAQPSNQSPMSLTSDASSPR IICFSKE*GTPQTNTVPIQTFGFS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPATNCDTLVECCLPGL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPSNPSK TSDANILSQT SRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQLSKHNRKVMIRSALIT SIILDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVPQSPI/PSLT SGPKSS*TIA/PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSSRSPSPGSQFILL NSSNGIQMATVVPQEFFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL\PIYRVSRKAANFEWSPEQEALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETAVGKTARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYSFFKRQLLACYWVLVEIEHLMGHQVTMRPELPIINCVLSDPCSHKVGHAQQHSIIKWRWYIHDWAE GTSKLHEEVAQIPMVSTPSLPQPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLDSKSFSFETRTGSPCSSLQTAYC GTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	



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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECHIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRWMTVGYCKLNQVVTP AAAVPDVVSLLAQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVAIAIQG ITKIETTPNHQRAPAHWTLTQ QAHLPSPHLFNLPLTLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEE VLQAEGDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLPQDP KHHYGPPVKVGAYGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISR YNSPTSEYFQALDLTWRALGT VGSAPPILPDGGTNRQFPIL SHSGLHRNVLPETDSQSEDRL PVTWLAVSACCQQQMVGGNP TRSKL*RTGSHYHLPQ/WEP*RP HFPHAGSLAWQWLLCSSLEHSF GA*ELPCNPCKGWCLCPCHFIF YIFNSFLSNCPIQLCNWHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPFIGKVRTLEFP FVNGSAEIMLMPSNQKHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNT HKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLPKDPKHHC GPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECHIDILSS WQNPHIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKELKDAGEVIPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPD VV SLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQQG QYTFTVLPQEYINSLGLCHNLI WRDLDGFLLLQNITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS

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7725	38093	A	7779	332	2159	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQGQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDIMLIG\ P RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWKWYVHDWARA GPEGTTTPVISQWPHEQC GGG RDGGYAWAQQCRLPLTKADL NTATAKRPICQQQRPTLSPQYG TIPQGDQPATWWWVDYMGSL PSWKGQRFVLTGIDTYSYGFA YPACNASAKTAICGLTECLIHH HDIPHSIASDQGFHMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQLQCQLGDN TWQGWGKVLQKVYYALNQHIP IYGTVSPIAKIHRSRNQGLEVAP LTITPRDPLAKFLLPFPATLQSA GLEVLVPEEGTLPPGDTMIPLN WKLRLPPRHFGLLPLNQQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPPGDTTMLSLSWKLRLP SGHVGLLMPLSQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTPG*FCFFSRIRSHCVAQA GL*LLTSNHPPALASQT\VGITG VSHWTPNTGFSVLTATNKNL KFFHYAISKCLVRAKLSSRLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETA VSNFV IYGIFRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLLFGFTI VSGTGAECTGVCPQLQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FEESESSL DTVSPFVVFQSISSLRIE*ARA GDSSQ\ DKEGSCPPGVTI*LFPS GLC\RDQVPGGTAQCPGQ\ M\K CCR\NGCGKVSCVTAQFLSSSH HQAQVRRDSFLPGPASGFQAH LPSPFFGTLYSLFGLTTSFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLLQLRPAQRASWIGYAIAYHL LEDYEMAAKILEEFRKTQQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLLQLCRLEDAADV YRGLQERNPENWAYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFKECL DKFLRMNFSKGCPPVFNTLRSL YQDKEKCAIIEKL VVGYETSLK SCRLFNPNDGKKEPPTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVAKIYKHA GNIKEAARWMDEAQAALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTRRLDTAK\LSDEL KKLRNKQRRQAQKKAQIEEEK NAEKEKQQRNQQKKKDDDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIETHLFAF EIYFRKAAKMVYYLDPSSQKR AIELATTLDLSTNRNLQTCME VLEALYDGSGLDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPG\QLM M*EGSGWAEARIT/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWLG RSKDHRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQPLLYWTLVNFLIPFS LHSSTWFMWSSNQGIMCKEEV

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7735	38103	A	7789	3129	3197	TQNRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVVTTTEAAVAIGCEAAH SSREDFTNHQLWRRTVGKKK EGKNKFMSSGGVNTTVPLLKTS RKGSPDSPHLREKPSLEKVTFQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGSRNDDMAA DIAGQLSHAADLTASHDDVT YAIKPTCWPLDIIIPCL
7736	38104	A	7790	1	1069	MAEKEAGMSYMAEVLGFVA VIIAECLKRIRFFENFTVAERS TDETFSLAEETCSSNPAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ ENQLTWSGNHGEDQVLNGSK IITALEKGEVEESEYVVITVRNE PALVPPHPTTNSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNDHLYTKLH FCFLQAEVKASNFCIYDSLGH LGSHHTVECIATDEHTLHLTSP MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWVLSEPSSHKVG HGQQHSIIKWRWYICDWAVVG RESTTNGLA\GWS\GTWKKHD WKI\NDNEIWGK\SMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHIPP/LGTEQ EKTLQHVQAAVQVALFLEPYD PADPMVLEVSADRAIWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYYWALVET EHLTMGHQVTKQPELPIMNWV LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPGLSPCSQHLL WCRASCRAWGPSRPSRVCTG LDTAVTPAPCRLSPLWTSGADK RGREASRGEGSSKWACRHPSA QTAWAVEGDRHRFLSRKGQIT GKTPSSQQQPEAWGLSCSCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCGQQGGKGC GPSGTPDLGALRAVTVGLCS SWHLQASGHHCIPQYLQKLL VVHLVQPQCTKPVPVPSFRLQ MTIENMNLKFIHKDYTANRL VSGLLQLPSNTSLVIDETLL\EQ GQLDTPGVHNVLTALSNLITWQ KVDYDFSYHQMEFPCNI\KVFIT SEGRSLLPADVPDSLTPANST KHGGST*TAFSQRCLPC

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7744	38112	A	7798	1	2555	MPSHLNQHQIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKA FRWPSNLTRHK RIHTGEKPYTCEECGQAFRRSS TLTNHKRIHTGERPYKCEECGK AFSVSSTLNDHKRIHTGEKPYT CEECGRAFNCSSTLKTHKRIHT GEKPYKCEECDKAFKRHSSLA KHKIHTGEKPYKTGS\CILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTRLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFGLCSIFTEHKKIFSREKC YKCEECGKDCRLSDFTIQKRIH TADRSYKCEECGKACKKFSNL TEHNRVHTGKKPYKCEECGKT FTCSSALTKHKRNHTGDRPYKC EECHKA FRWCSDLTKHKRIHT GEKPYKCKECHKA FRCCSDLT KHKRIHTGEKPYKNECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEECGKTFKWFSDLTNHK RIHTGEKPYKCEECGKSFTCSS NLIKHKRIHMEVRPYKCEECGK TFKWFPDLTNHKRIHTGEKPYK CEECGKTFTCSSLIKHKRSHTG DR/PYKCKECGKA FRWFSALL NISKHKRIHTGEKPYICEECGKA FIRSSLTSHKRIHMEERPYKCE ECGKTCIIHIGEKPYKNECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLYPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLPDSHTW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQRGVSE LLRGRLRELEEAREAAEEAAAG ARAQLRE\ATTQTPWSCAEKAA QTESPAE\GPP*LRRARPDPWTE TRAVAPAGILKSIMKKRDGTP GAQPSSGPKSLQFVGVLNGEYE SSSSEDT\NDSGDSENGGAEP GSSSGSGDDSGGSDSGTPGPP SGGDIRDPEPEAEAEPPQVAQG RCELSRLREACVALQRQLSRP RGVASDGGAVRLVAQEWFRVS SQRRSQAEPVARMLEGVRRLG PELLAHVVNLADGNNGTALHY SVSHGNLAIASLLLDTGACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGQTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLDTVRLLLTQPG\C DP\SILDNEGTSALA\IALE\AETG MKVAALL\HAHLSSGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSGPATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAAIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPDEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMP STFQKPTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	



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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTPGPSAAAMAR PLVPSSHKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFL\TKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLPEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDED DS
7757	38125	A	7811	2	296	LSLSFFFVKAHFYVKSMLHSKD ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQK*KL YSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRYIDLLILRVHLQIH LWGLRGRAEFKHI/RSAAEKK LTRIPSVNGE*TGKSPAPANS\PP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQSFHGNMC WFCAEPGVAGVPFTANIAGTEP GGLGQGRQC SLATQCHKPELK LQAKPAFPFSFSLSLFFFLKHL

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7760	38128	A	7814	594	2868	CWTSRNRPIPGSCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGS�TFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLQPPVNAGGGSGGGS GGSEGGGSEGGGSEGGGSEG GGSEGGGSGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLPLRHQILGGKKAIQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRQPYA PYDYLSVMTPSRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLPKPSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLISTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAATENWRQWWQKRRIT VNGG/GSSPASDADQTPAPGFR RDVGDRDWFAWRQCLLSALT RRRPVAYIVISSAMSGSCLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPL QLALSGWGRFRLPG

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVPLSTFGASG PENSRDSCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISSPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSTPAQLAKRAGEA RRNGWQGALFPWESARSGE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLD
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAAIDGFI GDVSLANGNGATGDFAGSNS QMAQVGDGDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGSG/GYSRPVPPAGGPGP*RGRTRI/SGLANGAGPVVFQFLTELTRLFQKCRITSGSVYITLKKCKQREGSRAMLPGFPYTPVSSKAMYDAYWNGKFRDCAFHSGFNEDPFVCEYQQQSSDLPQPPVNAGGGSGGGSGGGSEGGGSEGGGSEGGGSEGDGSEGDGSGGGSGSGDFDYEKMANANKGAMTENADENALQSDAKGKLDSVATDYGAIDGFIGDVSGLANGNGATGDFAGSNSQMAQVGDGDN SPLMNNFRQYLPSLPQSVECRPYVFGAGKPYEFSIDCDKIKILRGVFAFLLYVATFMLPVIANIAIPQKRPFMQQTRCEVQCREIDIEVQKLKSYDKLLASINKKPGVNGWQKRRTVNAGEAHDQQALDYALYHLRIMTPAHDERSSIAAKGLTGEGYKGVFWDTEVFLLPFHLFSDPTVARSLRLRYRWHNLPGRARRKRDNWGAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQQ/RKFQAHKPAKSKTAA/A/ASEKNRGPRKGGRVIAPKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTLWLFLSATFICRWNLRKSESGKKIEHDVVMKA\SSSLP\RKLLALKAPSPRRNGAAAA\TSSKTPSLRTAGPQLQGQHPTPLPSIWGPLQVNSHRLSLFRMRTLSPSDWASPRHSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHK TIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLKF MPRNGTGVLLSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKKEPLYVGVDEDEKANATVD GLEQGHFVCPSEKRYLLLFTFL KKNQKKKLMVFFSACMSVKYP YGLLKYIDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLLF\QLE KLIEKNYFLHKSAQETYKSYIR AYDSYSLKQIFNINNLNLPHIAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQKTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFDKYL TGWRFEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLIKMKEIAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNTSIFHALF EELNAYLFHGTLDSEKALGN AKLDKSQIHDI VL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGFLRYWSQAY TPATMSKGPVAGIDLGGTYSCV GVFQHGKVEIIAN\DQGNRTTPS YVAFTDT\ERLIGDAAKNQVAM NPTNTVF\DAKRLIGR/RFDDAV VQSDMKHWPFMVNDAGRPK VQVEYKGETKSFYPDEVSSMV LTKMKEI\AEAYLGKTVTNA\V VTVPS\YFNDSQRQATKDAGTI AGLNVLRINEPTAAAIAYGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFIAEFKRKHKKDI SENKRAVRRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPEKALRDA KLDKSIHQHDI VLGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKS\ENV\QDLSL\DVTPFP LGIETAGG\VMTPVPH

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/IILGGEDFDNRM VNHFAEYKRKHKKDISENKRA VRRLRTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSQIHDIALSINPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSNQPGLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRIINEPTAAAYGLDKRHRSSLP ILTASL\GAGSGL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSKI HDIVLAGGSTRIPIKQLLQDFF NGKELNKGINADEAVAYGIAV QAAILSGDKSENVQDLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNNLLG KFELMGIPPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQEAE KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGGKINDE DKEKILDKCNEIIHWLNENETAK KEEFEHQKKELEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPVAVGIDLGTT YSCVGVFQHGKVEIHAN\DQGN RTTPSYVAFTDT\ERLIGDAAKN \QVAMNPTNTVFDCQTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\ VSS\MVLTKMK\EICRSLTLGKT VTNA\VVTVPVSYFND\SQRQAT KDAGTIAGLNVLR\INE\PTAAA IALQKFRQKRFGAERNVLIFDL GGGTDFVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFAIE FKRKHKKDISE\NKRAVRRLRT ACERAKRTLSSSTQC\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\DAKLKDSQIS *YLSWVGGSTSYSPRLQKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGAAVPGQPFLSGRQVLENV\ QDLLLL\DVTPSPVVLKTAGG VHDCPPSKRNTTIPTKTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPP\APR GV\PQ\NEVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSREAEVTKLEG GGRQEGTRVSSNDF*GMPFEN MKSTLLKDEKL\QG\INDEGQ NRRFLDQV*LKLSNL**ESRL LEKEEFEHQ\KELE*VCNP\IIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PFPGGRVVRVRLHPVILASTVDSY ERRNKGAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKKR LAYAIIQFLHDQLRHGGLSSD\A QESL\EAIIQCLETAFGVTVEDS DLALPQTLPEIFEAATGK\EMP QDLRSPARTPPSEE\DSAEERL KTEGKPKQMK\VENF\EAHVHF LTEKPFELNPSQRPSYFCNRRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\A EAVAYYKKALELDPDNETYKS NLKIAELK\LREAPSPTGGVGSF DIAGLLNNPG\FMSMASNLMNN PQIQQ\MSG\MISGGNNPLETP GT\SPS\QNDLASLIQ\AGQQFAQ QMOSVGIPRVV**SAQESSIRS TPSASNDDQQE
7789	38157	A	7843	225	398	FIIDYTNSCIFHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVWVSF*Q*SC FYL VHPNCCSPLV*HP*SENPKE SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRMPP*K MTVRAHHGISRTPHSWVESNY YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLLQGGKI PWSLVTVDLMGAFSYKPKS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFKEKNP LYYLPETSDSLHEVDGDNTSMF AKILDAIKEADKIMENKTTSLG QMENNNDLDELNKSIIIVKKKPK QLNPFHLKVGHGSFKTEKLV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\ RTAKDIDVLIDSLPSEESTAALQ AASLYKL\EEENH\EAATCLGG MLFIEGDMLLGGRYKGALA\DI\ AQSQLEGQGS GYP*ASLFPDS



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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFVKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIHKVGIGPGSVCTTRK KTGVGYQPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMSEM AMEEVLLGGVAEYRTS\EGKT VEVPF*REMLEHTIPRHP*GGIR SVTCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHHFGGQGADSAAPFGSASI LPIKLDVHPHDGRRRAEKSKPG GNPQRQLYCQPPAGCLPGAVY RPRRSRGARMYSRYSPAERRNP DQRAGYCQAPDRLRFSRADDC RSRWRHVHFGTSRHCAGDRAV RPPHSAAEALPVALPVFQ*PTA DQ\VLFPSLIAACYNHNHQNKIL EQEMSCVLLATFIQTRAQQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQKDKAR QSAPEKKNRAIRGTNSREQAAK AERNRRQRRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTRDTNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHREKETSSRTL*QFQPN AKSPGQNLRESMNPVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*STLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGLNLT
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEEAKVNEIAFINTLEAQNK RHDVLSKLKEYEQRLNELQEER QRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARI EQQRQEKEKAREGAARERARD REERLAALTAQAQPRSYGRVTEK NSAQA**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLISSEVYLFS HVKGRKHQQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRAKEYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTL EITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGGRKCPLLVAP RLEVQMAVILGSLQVSPPGFK\* FSLPQSPSSWDYRHAPTHAQ NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAELS YLNKAKWLEMYGVDMMHVVR GRDGCEYSLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFRDL SARTCKHLWKCAVEHHAFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRTSTFERK P**TSLIPETFNVQSKQPSDSSPA LLLKQIQKS/NNYQPPISILISIPS PAPGGILTTPQMSGHPFQDDRSH WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVMTAL

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7806	38174	A	7860	1	936	MELTHLQPHEPQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELA AVSRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLP SQITILTTYTGQLFCLRKL MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNHPET HTLVSKASDFQKVTEEGC/MLP CEFRLGCGHVCTRA WHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSFGGLLLG LTPVLRWVADGGTIPKRHELV KGPKKVEKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLLDKSAEKGS/SG RQASHIKTH*RIVDRAESFPDNP CPGKGIGKN/D*KVDKHDDIQA GASSSSPVGGPGRWNGRHRFLL PSGGCGLCCFS*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEERRL*SEAG KENKENPRQQSLFQNDVRSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSSGKAGK PPCGATKRSIADSESEAYKS LF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHEL VKGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKA EVCHTC GA AFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKKT KKP KAAEVCFQNP DVSGRKPQGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQGGARRDALEVVG YEDS
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHPPSLSF PPGGRQPLWVPALPAEEGRE/R LGRERE EGRGKAGAGMA*AGL VL*CLQLQVQGGPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRLV KYRGEVQAMLGESIEELRVRLA LYLRKLCTGFLRDADHL*RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRVNCETEPAM/* HAVENDIHGLCELQLETEIQAF KEELL/FMCKNHHEEVKGLQAQ IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNRR SQQIEESTTVVTTQSTEVGA AMLTETRTVQFLEINLDSMRN LKASLENSLREVVARIALQME QLNGILLHLESELAQTWAEQQC QAQEQALLNIKVKLEAAIATY RRLLEDGKDFNLGDTLDCSNS MQTIQKTTRQRMKGVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSLTAPFPVSCQDHLCP L*AEAQISIKEEP
7820	38188	A	7875	3	323	FFFETEFHSAQTGVQWHPSS PQPPPPRFK*LSRPSLPSSWDYR HVPSPHGNFLHFQ*KRGSTNQA GLELPTSGDLAAFA\SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGFLALCTW ALRRSQPGWSRTDCVMISTRV SSVHAVLATGSGIVIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTRDQNRAPSL TLRNFLSRNRLMITHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNEMT ESLKQQTLLYKVNGLTLGNFV FPCR\ILLFPFMV\WSYGRKKGL SLVPSTLQHPILTATWANAFPR* APQIYWFCLLLQ\KAVRLFDT QAKKDG*MLLGVRSLTPAAS STQHSMDQIVPWVASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRLECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCRAWLIFCVLVEGMF HRVAP/GLVLNS*AQTIRLPRPP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPIKRLAPAPAF\VRKQE LKKIVDP\LL*KKS*EFGHLDRDI QPQKRPPPLL*KWPR\YIRV\QG RRAILYK\RLKGPFCDPGFTQG PGTPQTS*SSLLK\AHKYRPRD KAQRSKQR\LLA\RAEKKAAAK GAVPQERAHVLRAGV\NPVSP PLVGEQEKL\SLVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIHK GKGKTGDGLVHQKALHPLSAF TQ\VNS\EDKGAF/ALKLVGSYQ GPNYNDRYDEVGRSFTQNTVIH KSFSQITGWLNL*EVLSDDQLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWGNNVLPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGPSRGTGPGRGDE RLQHGGG\SREGPPAAPAAAAP GYGQSCCLIEDGERCVRPAGNA SFSKRVQKSISQKKLKDIDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMKVSNKSRLDQ
7825	38193	A	7880	3	638	GRGVAYRGPSRGTGPGRVR*T ASARRRTAAKGPPPPQLPPRA TAKSCCLN\EDGERCVRPAGNA SFSKR\VRKSISQKKLKDIDKS VRHLY\CDFHK\NFIQSVRNKR KKEDQVYDGRENS/SPSTDIDP EVD\LFPACQVNT\LR\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKS KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKHKMKKCS SLAIREMQIKTTMRYHLTPVRM AIKKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL\DPAPILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLNRYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWVYVCRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLELEKQEQTTHSKAS RRQEITKIRAELEKIEETKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAINKDKGDITSDP TEIQTIREYYKHLRYANKLENL EEMDKFLDTYTLPRLNQEEVES LNRPI TGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTLYKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWKGKRGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLTLEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKITNN PIKKWAKNMNRHFSKEDIYAA NRQMCKCSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTETITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIKEGILPNSFYEASII LIPKPRDRTTKGNFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHKKLIH HDQVGFIQGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDAEKAF DKIQQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVS FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPTYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKEIQLS*RR/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	



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7844	38212	A	7899	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLIGIDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKCCSSSLAIREM QIKTTMRYHLTPVRMAIKKSG NNRNHLDFKHILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	1	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIQNLTONHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDITTDPTMQTTIRE YYKHL YANKLENLEEMDKFLN TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL/LKENKIPRNPTY/RGCEGP LQGELQTTAQ*NKRGYKQMEE HSMMLDRKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKN YFKVHMEPKKSPHRQVNP KPK EQSWRHHAI*LQTLQGYSNQ SMVLVPKQRYRSM EKNR ALRN NAAYLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLP*PRANNQNLQ*TQ TNLQEK NKQPHQKV GKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHNEIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACLVVSSYRRA*SLV

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7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDENEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAIEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIAINS LPAKKSPGPDRFTAIFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLP TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLPVRMAIHKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRINKLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELQEIQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLKLQFQIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQIVPVC*H DCVSRKPHHLSQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEIETQKTQKINES RSWFFERINKIDRQLARLIKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAEFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNM PN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITHTPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIIISID AEKAFDKIQPFMLKTLNKLGI DGT YHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCP LSPLL FNIVLEV LARAI RQEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVS GYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWK NIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSLFNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPRTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFAQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDIYRTLHPKSTEYTFESA PHHTYSKIDHILGSKALLSKCK RTEIITNYLSDHSAIKLELRIKNL TQNRSTTWKLNKLLNDYWV HNEMKAEIKMFFETNENKDTIY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAELEKEI ETQKTROKINESSSWFFEGINKI DRPLARLIKKKREKNQIDTIKN YKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVECLNRPITGAEIVAI NTLPTKKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKTLEENLGI TIQDIGTGKDIMSKTPKAMATK DKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAACKHM KKRSSLAIEMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCKWVQCPRQ LGCHLTSSVIYGLRYPQAKRS ELELRDCEGLCNQTSPLSSLDG MGWKAAAEESNSGIRNIWIP AFATHKQYNVRQVISPPYWS HRGNGNNSLCVTRLSSGLKQP VAGTGRGLEGGSGTRDLMFPL SAAPKEQPILAPARRSWFFEKI NKIDRLLARLIKKKRE



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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKIRAE KEIETQKTFQKVNESSSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRPTGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIQGMQGWFNICKSINV IQHINRTKDKNHMISIDAEKAF DKIQPPFMLKTLNKLVLVLAR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSHDS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVNEMKAEIKMFF ETK\ENK\DTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEIETQKTLQINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKN

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7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLNDYWVHNKMKAIEKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHGGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQKLEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKINDK GNITDPTEIQTIREHYKHLA NKLENLEGMDKFLDTYTLPR NQKEVESLNRPI TGSEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLVLVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKHLFKENYKPLL KEIKEDTNKWNIPCSWVERIN IVKMAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLD PFLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKAKID

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7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRITYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKTSRRQEITKIRAELEKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSAEMDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NLTLDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKEIETQKSLQK\INE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRLRSPCN QLEERVSAEMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTQPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEITN YLSDHSAIKLELRIKNLTQNHST TWKLNSLLLNDYWVHNEMKA EIKMFFETNENKDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRLRSRCDQLEERVSAM EDEMNMKGEGKFREKRIKRN EQSLQEIWVYVVRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLARQANVQIEIQRMPPQRYSS RRATPRHIIVRFTK VEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDLIDLIYRTLHPKS T EYTFFSAPHHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH LKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNEN\KDTTYQNLWDAFKAV CRGKFIALYAHWRKQ\ERSKM DTLTSQLEELEKLEQTHSKASR RHEIAKIRAELEKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEITNYLSHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIK\ NAHKRKQERS

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7888	38256	A	7943	1	4455	MELKTKARELREECRLSRNRN QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWVYK RPNRLRIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTQPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DL\IDIYRTLHP\KS
7889	38257	A	7944	1	6108	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSV\CIQETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQA LIDIYRTLHPKSTEYTFPSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDLKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDAYVDYIFNTSV ASLFRCFSSGFHKVCGGKGLAR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIAEHP\TIKIF WEVFH\ELPLEKKK\RFLFLTG S\DRIPILGMKSLK\LVQSTGGG E\EYLPVSHTCFNLL\DLPKYT\K KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIATKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS NSDTDEDEETEPSSSGQIIENSI TMNKMKLLKAKMKNMNLSSK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSED TQ EKKERRTPSDDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTPTKTRLLMITLD SIFMQASCVPPEVVWEVLRVLE AH\SSKKHFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSGVSK*GI*EKEGGRYP VPENMGSCRLVTVTASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSLKRTHL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKKSKILSKVEKF LTWVNKPMDEEASQESSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNLLLGLLENPNLPLT RSPFPSPQREASWGIQKATTGP GEGECTRLGFSLLLDVFCALHG PREKCVEILRSGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWVNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGDDLLETNNPEPEK CQSVSSAGELETENYERDSLLA TVPDEQDCVTQEVPSRQAETE AEVKKKKNNKKKNKKVNLPE IAAVPELAKYWAQRYRFLSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGEIFRLS KKITK\NIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNNKLKTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRHTGVKPYECKECKG TFRQHSQILHQRTHTEKPYV CKDCGKA FIRGL\QLTVHRRHT GARPYGVLKECGESLLDSTHS* LLHQ\RIHTG\EEPYECKECKG FIHSSEVTRHQRIHSGEKPYECK ECGKA FRQHAQLTRHQRVHTG DRPYESAED

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7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNPTRTEPRPPNRRGRPN PQTRRTKQQNTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPGVGSAPFEM STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRSRGANRNST ERHEDGYFYGSLTTGPLPWHSA IHSVSAGQPWSLKFTVGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTEPGSL LLRPREELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAATPSFPPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHKEGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGGRRCA*CPQVRLC QPRG*GGRVLPGCRDRERQQ RGRHRRGCHRAAAL*RAGATL QPCAAPTAAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSGSRP RRKKSCGRRRSGRPPWMRGSG SSRSGWSRSGRSKRSASGATGS GSSRSRSTGGNSRL*KRKRPRG G*RSSLSLVTIGMRRKRPT*RSQ SRRWRRQQLLPSGLTTQGSSS SSRKESHRPLRAAVMYPRPSTI DQAATWTATGGWRPLSPRGA RLTPAPPPPLSLSR*SGPWMRSP P/PQPPPLPPPPPAPKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRRLPGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTPLLTPLLPTTYPPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQAKAVPPFSTLMSCLS RQPPSVTQRKWKGPWLPPRPQ LCPQPLRSWSKSRSPCTC*PM ARPPRRRGPRPSEGYFSQSQEEE FAQSEELCAKAPPVFYINKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL L L L L L L GALALTET WAGTHSIRYFSTAVSRPGRGEP RYIAVGYYDDTQF\DAATPRM* PQSPWLEQEGPEYWDRSTRNIR PAHRLTRVNLPMPRYYHQS* AGTGIFHGIRR/YIPDTCVQTHM IHHSVSDYKATLRCWALGFYP VEITLAWQ\QDEEDQTRDHE\L VETRPAGDGTQKWA AVVVP GQEQRYTCHVQHEGLPKPLTL RWPSSQPTIPIVGHAGLVLFGA VITGAVVAAM/WQEEELRTFS SHR*SELTSERASSDHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDYAIELFLQASLILLSSTLP YNEREMGLSIFALLTLTVFLLLL ADKVPETSLSVPIIKYLMFTMV LVTFSVILSVVVLTLHHRSPH QMPLLVPSDLHSQTSAPVASKK AQTRERPDAGAPSLFFSRKWL YIARQLQEEDHD/VAEGGLAV CGHGSGPPLPVDFHHLHQ PSHLPGRHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELITYLFIYLFIFL RRNFTLVA*ARVQWCDLAPPQ PLSPGFKPFSCLPSSWDYRYA PPYLANFVFLVGTGF\SMVLRL VSNSRPQ/CDPPASASQSAGITG VNHHARITFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQPAPPLTPHPNAPLGPSD LHSQTSAPVASKKAQTR\GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGGV SSISYIARQLQEEDHD/VAEGG LAVCGHGSGPPLPVDFHHLHQ RWDPRSSWSHVPLAPSRPLSL KTGGLRPGPLPVEVREFGDTVK PYPSLPLNSFTRNLGLLFRSG



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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGS LQT ASQVQAILLPQPPEVAEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVGS LQ\LPFRFKRFS C\PASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSCLSLPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPGLRRFSFL SLQSSWEYRCPLRPADFLYF*S RRGFSTLVRLVNSRPQ/CDPPA SASQSAGITGVSHCAR\LFFSFE MEFRS\VAQAGVQWRDLDSLQ PLPPGALT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFSRDRVS PCWSGWSQTPDPQVIRPPRSQ SAGITGVSHRARPSHIS
7913	38281	A	7968	23	99	YTMTGPGCWRPL*TGPHPHHT WPGGSSSHPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*/P/ELPADTTA TVEDMLPSVTSVTNSTDITETF ATAQYILTSETTTLTSSIAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVAPLVLDSDTP TSTPAASNLSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPTQPGA AKSPAEEAATALASPKSEAAVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVPAPAKTE YGLSLSAVIGLCPVVS GWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGLLEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSLHQCF LTLPRQAL EASSCNSTGWGEGTGKSG LQ RGP*NQCWEPSPAQQAFTSS* AVATAAGQGEELPLLPSTTP GKNTASGINLWLEERTRSSDS VLLNYGCTLKS LACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRL EERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQKQIFSVD DTA FS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLEL CFLRAHHDV GFYCDLDVYQSAVYAPT CPTG YSLPQAKEESDFIPLEYEKGRIT STAGQGQDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLD SVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALS YITCSSEGEL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLQIQDSWATHN RQFEES EEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLF\KKTHRILRRLFN LCKRCHRQPRFRLPKERSLSYW WNRIQSLLYCGESTFP GTFLEQS HSCTCPYDQSSCQGPIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYLLQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPLVHVMLAL SLQICLTKNSTL\EPVMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TWERTNVDA A A\Q\CQNW TM HLGGIRWKTFF\ETV\HVYLR SR IKSLDDSSNETIYYE PLEDDWIP LRNLG\YMKINTL\QVFGYSLPF DPD\AIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPLPSPPLPRPGPA\GPP SRLPSP/PASASPQGV P*LGPA A AELPGIRSR*PQVA APEAETHP WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPECTYKAMNI GCMENLKALLKDSNSMVRIKT TEVLHITASHSVGRYAFLEHDI VLALSFLNDPSPVCRGNLYKA YMLVQVPRGAQEISKGLISL VWKLQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIRSKAARALLNVSI SREGKKQVCHFDVIPILVHLLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQAIGLLELLHSP MTIARLNATK\ALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEISKGLISLWV KLQVEVEEEEFQEFILDTLVCL QEDATEALGSNVVLVLKQKLL SANQNIRSKAARALLNVVISRE GKKQVC\HFDVIPNPWSHLLKD PVEHVKV*RCRLPLMFA\TVIT EG\KYAALEAQAIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNKKPIHMYINSPGGVVTA GLAIYDTMQYILNPICTLPRTVR MSPRWCRRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRC LHATAT RALPLIPIVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNKKPIHMYI/N QPSGGARGQATDIAIQAEEIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGILDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPRTACSLQRCLHA\TATRAL PLIPVVEQTGRGERAY\DIYSRL LRER\VCVMGPIDD\SVA\SLVI AQLLF\LQSR\SNMKPIHMYIN\S PGWVWV\TAGLGH\TDTIAVTF LQPDFCTW\CSLGPGAASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGQSPPD\AIQAEE NP*KL\KKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFG\ILKTRFLVPPSPQDGE\ DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPGFKQFSC LSLPSSWDYRRAPPHANFFYF F**QTG\FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRSSGGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGH\LVKDM KIKYLEDV/YFSLPIKESETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCCK VTGRCGSVLVHLIVSAPVPKKL LMMAGIDDCHTSARGCTAT/LG NFAKATFDTISKTYSYLTLDLW KETIFTKSPYQEFTDHLVKHTHT RVSVQRTTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPRAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRR\LVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQ\DLRRKFPFPCSSR YMSSGPVAMVWEGYNVVR SRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDS\VEGAQR RIQ\WLFQEQ*SWVSWA\D\GGQ HSSIHPA
7933	38301	A	7988	1	897	

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7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQKTKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGALFTI AKTWNQPKCPSMIDWIKKMW H/IYTM EYYAAIKKDEFMSFER TWMKLETIILSNLTQEQKTKHR MFSLSIGSRTMRIHGHREGNITC QGLLGECVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNNVRTWLYSN LVCWPSLGSMLGKLRDRVIKR VIYTHTAGDVSMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEVTLQIHSPFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKK\MW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQKTK\HH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVLTIAASLSFKDPFVIPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRLNLGKKKK\K VKVYTKTDGLVAVHPKSVNVE QTDHFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGSACRIVCTQPRRI SAHSSCGKSSCRKGQNLVASGN STGY\QIRLPESVAQGNRVLSYT VPTRNHPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVILMSATLNAEF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYSASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITIDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGRAG\RVQPGSLLFICI NGS*EASLLGWTIQLPEIFEE\PF WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNPEVLLSIRHL\RLSNA LDKQEELTPLGS\HLARLPVEPH IGKMILF\GALFCCLDPVLTIAAS LKFQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKDFCWEYFLSS NTLQMLHNMKGQFAEHLLGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKTDGLVAVHPKS VNVEQTDHFYNWLIYHLKMR\ TSSIYLY\DCTEVSPYCLLFFG\G
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEIITLSKEEETKK
7941	38309	A	7996	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRKRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLD/NETNEIPN ANFRQQIRKLIKDGILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYSLYLKLKGN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTLSEQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGEEKKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/RC RYHSLYLKVKGNVFNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPHPAS*G/MPAGP VQKGAPT/AAAAG*RLLKHGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*C*CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDAPOKSAASSSLKVLGS LPKHQRP RRFCQNTGS*SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPAVTTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECP/VFT ATASSGLGEVE*AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHVSVGRAVAAQ GGEHSSQGASLVLGEPRGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAEN\LGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGR\IGEIVYFLPFCHSEL IQLVNKELNFWA\KRAKQRHNI TLLWD\REVADVLVDG\YNVH YGARS\IKHEVER\RVVN\QLAA AL*SRTLLPAGGCTLRITVEDSD KQLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEM SRNRIAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFNLSVLYLHGNSIQRL GEVNKLAVLPRLRSLTLHGPN MEEKGYRRARGHSLHQIEK YICESDDIFRKYCINNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLLEPPWS/TTVV CLYCRPATDFHPSGSGRVSAVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEEFGWGRLERS AVEWPNSRGRSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNENVS KSSKVV KVFI VLT PQFLSRDKDQLTKEL QKHVKS VTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDR TSEKHLDD SVFTALQDSAGQQWPARLHPQ RGEEVADPRGAPSRHIVEPENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEA WRQAGPGPAEA AD/TSATSRRTSPTCRRRRPGC SGAPSASTTSFRAWGWTQA AK ASPPRDNCYNSSSLPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRNGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVPH*/DFPVRS PYLLSDKE VCKIVQQLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL



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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRITSEKHLLDSVFTALQD SAGQQWPARLHPQRGEEVADP RGAPSRHVEPENSSPCQNGEQ AGKAGARALCGQARRSPATMP PPLTTRSLCEFAVLLHWLFP FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTVYFPHMQEEE AWRQAGPGPAEAD/TSATSR STSPTCRRRRPGLQRCAQCIND KLQGLGLDAGSEGEPPTRQLLQ LLQPAR*HLSNQG*GGLQGRAL FTHDNLHKQHSCSDSLGKKQL DPSCIKLIRH*VHLLYLCTKNR VWTFMGNLHWNRRGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVPH*/DFPVRSPYLL SDKEVCKIVQQSLVGNFAAGL L/LPPRTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECIPSNDEQCHCPNRKK CNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLSLANNKITTINGLN KLPIKILCLSNQIEMITGLEDL KALQNLDSLHNQISSLQGLNH DLLEVINLEDNKIAELREIEYIK NLPILRVNLLENPIQEKSEYWF FVIFMLLRLTELDQKKIKVEEK VSAVNKYDPPPEVVAQDHLT HVVNSVMQPQRIFDRYLLEIQR PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLGLFYDFRAC HTTRPPYFGEGDRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPVLCFPHVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILLTDRITETMNISWKP RNPSHTVPHPHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVFPLVL ECPNLKLLKPPWLHMPSAMTV YALVVVSFLITGGIYDVIVEP PSVGSMTDEHGHQRPVAFGL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVLLLEFFPWARSNS MRNGNCPGLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSTAVI RVLLPGILLSSKLRCMVLATA LERDDSDVGVTISSINPQDSHFS CLLLLRISNSC*IC/CNFFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRLQQAEEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KROGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSMD VEPAAWVLMTFCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQFRP/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGR TYSGWVEAYP TRTEKTREVTPLLRDLIRRFPR PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHA\GKVQFRP/DIQAY GAAAFEDLQVDFTEMPECGGN KYL PVLGR TYSGWVETYPTRA EKAREVTRVLLRDLIPREL PFR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTHIQTH NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPTDYKNP QEDVRTQLLGTYPQWDPNERQ DMQRLNRYREALLEGLKRG AQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFDPNSPENQ CMINMALVIQSTEDIRRLKQKQ AGFARMNTSQLLEIANQVFVN RDAVSRKENQKENG GWPPCLR ALAATALLVQEANKLTLGQNL NIKASRAVVTLMNTKGHHWLT DARLTKYQTLLCENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRDQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVV EARS LPQATSAQ KAELVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQTPH VLTYKRELNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGS LQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEG FNGDYGVMTMPGKWR TYFEID WSKLEVGWPSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPPQWLRGQAAAVLVA KGQIPRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPGALP LPGKDAPHS*AHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWD TNAPERA VVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKQALIDLL QTHQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPENQRM NMAVSQSAEDIRRLKQKQAG FAGMNTSQLLEIANQVFNDR AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTQTWTW LPQGFKNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKKAQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPF EW
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GRRQRRSKVTSTWWQARESS CRGTLLYKTIRSCDTYSLSQEQ HGPNLH\LIGVPESDGQNGTKL ENTLQDIIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPALQELLKEALNMERNNWWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPTDLQLRDLTDRR KTNKQKGIASLTlKRTSTPKPH LYVTNIKDQRPNPRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTPQRYSSRA TP\RHLLVRFTKVEMK\EKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPiFNIL\KEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCLP*KS TRPALKELLERKHLNM/EKGN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEESLENISSVKKI QIISHSSKVLHFPNPEDKKLEEII HQITNVEALIARARSLKAKFGT EKCEQEEKEDLERFVSCILLEQ PEVLVTGAGRGHAGRIHKLfV NAQNVA\AMTP\EEELKRMGS PEER\RQNS\VSDFPAPPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHhKWRR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIALV

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7976	38344	A	8031	1	1688	MREKPCQSNCEGKAFNYSSLLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRRRLHTGE KPYKCNECGKTFSEKSSLRCHR RLHTGEKPYKCNECGKTFGRN SALVIHKAHTGEKPYKCNECG KTFSQKSSLQCHHILHTGEKPY KCEECDNVYIRSHLERHRKIH TGEGSYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSTRRENLARHRLHA GEKPYKCEECDKVFSRRSHLER HRRHTGEKPYKCKVCDKAFRS DSCLANHTESSILGEKPYKCY\K CCGGFLIQKGLPQHQRVHTGE KPYECNECGKVFNQKASLAKH QRVHTAKKPYKCNDGKPLPD QSTLFHHQSNPIGVGKRYQCN DCHKVFSNATTIANHYRIHIEE/ KIYKCNKCGKFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KAFTSCSHLIRHQRIHTGQMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRAFLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMALAFS EQEEHELPVLSRQASTGE*GMR GTPAESGGKDWVTAVLVAGPF CGRARVHTDFTSPYDHDSLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLPEEAVGH ARPSRRQSKGKRPKPKTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPG\GEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQL QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLIFLIHRLGTALRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQHF/TFI/VLPQGYYN SPGLYSTVLRDLENLDIL*NIK LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRGVPS NVKDKLLHLC\PCCKGREAHCL G*ALF*VS*HHIPTCKVVSGFDP HF*VT*EECPAFEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFGVELNQAPVGESQWKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQ\MPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPTATSKCPTHQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMTGIGT YSIVGFSCRVVIPSVSTTFWGLL IFVIHRLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAAGP*RMLKRASIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPIPSTHLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRVRGVPSSTGT\VIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSRRIVQ
7986	38354	A	8041	1	1296	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGHI TGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAVAE MKAVSKNKVVAETKEGALSEP KTLGKAMGDFTPKAGNESTSST CKNEAGTDAFWWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELEPAAGADCKPRS GAEEEEEEENVIGNWFWEGDDT SFDPNPKPVSRIKVPQPVYEINE KNRPKDWSEVTIWPNAVTP AVLGFRSQAPSEASP/LFIYCSG LR*RKCLFFACGNSLPPF*E\PRS CSQPIECRFSDPCIQTIDEIRR QIRIREVNGIKPFACPCCKMECY MDSEEFELVSLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFSPPEMRKKTVI TLNPPSGDERQRKIELHVKHMC KETMSFPLNSPGQQSGLKILGQ LTDDFVHHYIVANYFSELFHLL SSGNCKTRNLVLKLLLNMSNP TAARDMINMKALAALKLIFNQ KEAKANLVSGVAIFINIKHIRK GSIVVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARH FSKCSSNAQSHLCPYLQAFPGG PG/VRGLPGWPGRGTGSRELGHG WRGCG/EGLVSGCQTMLSGA\P AGSPQ\PTGGTRAHAVRGRP*V PARSQGSRLARPQGQED*GAAP\ DFDPGAAGVPGVPALQEAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPPRPANFVF LVETGFTMLTTIVLIS*PHHPA SASQNAGIV/GVSHSPRPGIACLI TRLDF/HQGTQSRVPALGSS*PIP HARPRGHTLKALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRGQVGHAFASAI FASAILCVF TLLVEGKLKPPGASVRRCLQSN RDLGFRA TFPTSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	



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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRQPDRS SSSPGTSWPFPVEPMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIRQGPKIQD EGVLESEETNQTNDKMECE EQKVSDELMSES DSSSLSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTG SFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVGQGVSGLVEAM CLGQDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPSGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLDNA RIVSGSHDRTLKLWDLRSKVC KTVFAGSSCNDIVCTEQCVMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTF SAPGFKC GSDWTRVVFPDGSYVAAGSC *RALLYIW\DLTGTGKVEKVLSK A\HSSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTGLSG LGGPQCPPEEAHGLLPWSW QVNVLGYSMDLPEKLLKANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTLIHCW WEC/KFNPLLKAI*RFLKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRCPCNPATFGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVCLSDSENLS QKILLILEVSDSVILGKLSHKNI QHDCIEEPLTLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDLLPLLAKPASPEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENT\PA RWPPPP\PRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAAR AAPRRPAPSCFSAPTGC SLTG
8001	38369	A	8056	3	179	PPPHPQGPPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFFEMLSLCRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHPANSFCI FSRDRAL/TMLVRLVSNS*PQVI RLPQPPKVLGL*ACCGFCSGSS GMAPGCGRVVS HAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVNP DWLWSCLERWDKIEEQLFPLR DDHTKAQRENSPTPLPDREGIPP TALSHMPILPKAQSPSEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPA\G RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVP AEGAPTA A VAE VRCPGPAPLRLLLEWRVAAGAA VRIGSVLAVFEAAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGCSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEQAEQLG REDQQRLHRNRKLVLMVDLDQ TLIHTTEQHCQMSNKGIFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFHPKTCGW GEWGDHGVVWAGPAPA\YHL HRDVQALWTNDHALAWP*AM TSERTLWPGHELSARPGRSWRI SCPTGLAPQGGDDRTRGHWVTA TCCSADGLRLCRYGD\GVRGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPFRTPPRVPSMSHW LYDVLSFYCCCLWAAPDPGKD RAGLGCTPT*PSTLTLASAFGDP HFVTFDGTNFTFNGRGEYVGM G*NQGGRLPSGSRSAPTTAGT ETRGTLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFFERGQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVFSLSSSN*L AQSTARFPFGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSGPSQSSHP HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCRTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILESLAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGDLRRPGARRA GQGPQVGAPKPGGA EYVRWA AGGMKGAGGSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRRQACGA*G/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSGTPGAASVQVSAPP AQPQINLSAGARAGVARRCVCP RGAE*GPGDPGPGSRR*PPAA QSGPPPCPSALFLHPSGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVLGLVRAGPAWSPL DGPLDQKVFSPQTS LWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGA AF VVVECPDESFIQPICENATFQRY QGKADAPVALVVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRS HKIQTQLNLI HPDIFP/AAHQFPL*EGGPHQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPAEKRS QYPEIIFLGTGSAIPMKIR\NVSA TLVK\QSPDTSLLDCGEGTFGQ LCRHYGDQVDRVLGTLAAV FV SHLHADHHTGLPSILLQRERAL ASLGKPLHPLL VVAPNQLKAW LQQYHNQCQEV LHHISMIPAKL PSGRWLRSPVLQWKD*FSSLLR TWIWE EFQTCLVRHCKHAFGC ALVHTSGL\KV VYSGDTMPCEA LVRMGKDATRQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAVPQVPVGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKV VYSG DTMPCE\LLVRMGKDATLLIHE ATL\EDGFRKREA\LEKTHSTS QGHSAWGMRMNAEFHY/VLN HFQARRY\SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEM\ EERREKRELR AGAGRPSCSRGAGRRPLEDGEP QQKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLWVWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLWVWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVPEG NIVIGYSISQQRQNGPGQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKPSPARRSRR PAHRCSSRRRTCTPQATRP GMR *APAAACGPTGRRS/RLPALKI. ALEYIVPCMNKHGICVVDDFLG KETGQQIGDEVRLHDTGKFT DGQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHVDNPNGDGRC VTCIYYLNKDWDAAK VSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVP SHSVTSGAA AGECGGVHCD SVCAEGRWGP N CSLPCYCKNGASCSPDDGICEC APGFRGTTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNEA YSQ/SCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYM GKSLKDLG KNSEYNSSNCSLSSSEN PYATIK /GPTCTYPEKL RVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFP GSI*PP KNSHIPCHYDLLPVRDSSSSLK QEDSGGSSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPGRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKD WLIQ REGWPYILSRMFL/CFISTD GRE SESLWRKSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECCP VLGHSWGYKS/CLNRNPLKGLS SRCAGLA VRDSLAPNSQGWKA TFDFPSLECPSTYGYGCRQICD CLNNSTCDHITGTCYCSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHHSCP SCSLPTGIVHYL*TQAEKGKIKH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLNSRWLKGLPGAPGIQEIKE MWRCMSSICQKEGWRMTAGS LGHHRSLHVGQ/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFACPLRIDFFGWFFVFF LSWSFTLFAQAGVLWCDLGSL QPPPLGFK\KFSCLSLPSSLDYRC LPPRLTNF*FLVEMGFHHVGQ AGLELLTSGDPPASASQSAGITG MSHRAQSAALSFK*SGISKTRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRKTNARPVQVK\DS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPI GVQKPNGQWKLVDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYDDLLAAHLETLC QATQKKTGIALGVLTVQVGTSTF QPVVHLSKEIDVVAKGWPHCL WVVAAVAVLVSEAVKIIQGRE LTVWTS HDVSGTLTAKGDLWL SDNLLLNQALLFKRPVLRHTC ATLNPAFLPNNKEKIEHNHQQ VIVQTYTIQGDLLLEVPLTDPDL NLYTNGSSFVEKGLRKAGIHPS RQWTPWPAGPEMLSKRQVL ESGILKAFLVPYLLVAVLGSIDF NGKPPVAVFSLSQAHFLCAT WLLGYGEVWIHSHTAIKTYQ RRRSQDGRIGTAPVYSSQRERR RRRVISAFPSEGIPTDLQLRVLS VRRKTNKQKGHPHQKPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSA MED

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8036	38404	A	8091	158	865	NPAARTPFFVIKKGKRGEGCL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDLTLVL RYMDDL LLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
8038	38406	A	8093	194	1377	NPAAQTPFFVVKKGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDLTLVLQ YMDDL L LVTHSETLCHQATQV LLNFLATCGYKVSKLKAQICSQ QVKYLGLKLSKGTRALSEERIQ PILAYHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKQT KANTHLVRWTPEAEAAFQVLK KALTQAPVLSLPTGQDF\SLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNL KRWQSYTARVIRKERKKGK
8039	38407	A	8094	3	521	



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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWSPA AQTPFFVIKEGGKRGAGLLHGQ LILKDKFITQSAADIKEKLQKST LGPERNLKTLLNLATSVFYNRD QEEQAERDKRGKKKATTLVMA LGQADFGGSGTRKAWANRMP NRAYFQCGLQGHFKKDCPSRK PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTPLMEQ YVPCPVCETAWAQHTDPSEKS EDVQYFDMEDCVLTAIERDFIS CPRHPDLPVPLQELVPELFMTD FPARLFLENSKLEHSEDEGSVL GQGGSGTVIYRARYQGQPVAV KRFHIKKFKNFANVPADTMLR HLRATDAMKNFSEFRQEASML HALQHPCIVALIGISIHPLCFALE LAPLSSLNTVLSNARDSSFIPL GHMLTQKIA YQIASGLAYLHK KNIIFCDLKSDNILVWSLDVKE HINIKLSDYGISRQSFHEGALGV EGTPGYQAPEIRPRIVYDEKVD MFSYGMVLYELLSGQRPALGH HQLQIAKKLSKGIRPVLGQPEE VQFRRI.QALMMECWDTKPEK RPLALSVVSQMK/APDFCHLHV *TVLWEADSLLLIPGPGVHRGV LGWKRGVQELHGG\NTEKGLM EVQRMCCPGMKVSCQLQVQRS LWTATEDQKIYITLKGMCPLN TPQQALDTPAVVTCFLAVPVIK KNSYLVLAGLADGLVAVFPVV RGTPKDSCSYLCSHTANRSKFSI ADEDARQNPYPVKAMEVVNSG SEVWYSNGPGLLVIDCASLEIC RRLEPYMAPSMVTSVVCSSSEGR GEEVVWCLDDKANSLVMYHS TTYQLCARYFCGVPSPLRDMFP VRPLDTEPPAASHTANPKVPEG DSIADVSI MYSEELGTQILIHQE
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVPALPPKRMLGA DREFIEARRRALKRFVNLVARH PLFSEDVVLKLFSLFSGSDVQN KLKESAQC VGDEFLNCKLATR AKDFLPADIQAQFAISRE\LIRNI YNSFHKLNRNRAERIAS/RAIDNA ADLLIFGKELSAIGSDTTPLPSW AALNS\STWG\SLKQALKGLSV E\FALL\ADKAAQQGKQ\EENDV \VEKLNFLDLL\QSY\KDLCE/R GHEKGVF/HTKHQRALAQSTA* LKRPD*LSATGAEPSPPEVRGS KLKSRIRGARENAI\QTMELRN Y\FSLYCLH\QETQLIHVYLPLTS \HILR\AFVNSQIQGHKEMSKVW NDLRPKLSCLFAGPHRT\LTTPC SPPEDG\LCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEP/PA RPSCSCLFSPQPCNSITPSSLLLR QLAVAAAGGCGGHGAPALSST GWQQVCKSPQVRSVPDNPITTA DSTASLAWKFGEVLRSHINCY K*KQQPLL PVHAQRRRAQVSAP/ APPAGLSCGQHSLPQPPRCSDL LGLHPGRLPCDRGHCPPLPPVT PTPDKAGPILDPAQSCPFCSPIA PPKQPSPPARFPPEMKRKKTLM MPPSEGSLSLASGMEASVFQRL LSRCTCLDQATVIWGF CYMQV QASQGIPCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSSS ACSPHLCCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHRTLNSECP RRRRCCIKGCTYT*LDAVP\PPP VLDWL VQPKPRWLGGNGWLL DGPEEVLQAEACSTTEDGAEPL LCPSGYECHILSPG\DV AEGIPN RGQCVKQRRQADGRILRHKLY KEYPEGDSKNVAEPGKG\QQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHN SHLIYFRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHHL CVTP MQLRMTLVVSSLGKGTCGLSL AQ/CAPVQEGTHGGSPPEGWL AATRTCEGCRRENTMKNVGS KYAFNSLQLKAFPKHYRPPEDL RKS

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8049	38417	A	8104	23	304	KGFYLFNKQTIEQTNNGSKSFA KRNTEGHDDLLQGFQGSQTPS FLSSSGRCYSWGAIGP\QFGALS G\FSPFPHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLISPLCTIPALVE PPCGPQPSRSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSPQGVQ LPLGPR\RLKMNTEPPTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPGTMQEAQ PPEVLKTAGKAGGQEPG*L*RIP *GSLCPPCPVAFGAAELPLPSS DPVSRGTGAPPGQ*WLGFGYFS SNEGPSQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKL\KPGGLPGWL FPFFAQSPSEG/GLCPPCPVAFG AAELPLPSSDPVFRGTGAPPGQ GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPIE*ASPGPPHSG* AGQVPGAGPPRTAG*GV*TGTA PCPKAQPRK*QR*R*RCSS*VG* ESAEIVCPQGDAEG*RKGSP*G/ SHRRNVPS/RYSNSHGPYDSNQ PHRKTITFEEDKVDSTLIGSSS HVEWEDAVHIIPENESDDEEEE EKGPVSPRSPRKR/PSATRAAA SRLRGS*TLGGLLGCIFAFFAPP SPTEGACAHPAQSLSGPLRSFRC HLRILCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLLEQCLHSVSTWETPQYRRPP SPS*RGSRQPCSFSSPRDTPGE NHWLSLPQRD*AGPPVR/PSAG GFMTP/PPRGVPTVEVPPDPTC/S PNHTRPFRPFPSKNPCFRFPEPL RAPTLVPGPLPPTHGPRVPHLE RNLSALGLGKSEGLKRNPCVEP /PAPTPIRFPKITGTPLR/PAADH ALLGMRDQSLSGQSPGPKSPDA DDQLQNRDHTETEQRISSGRSS ALAPESQLQGCAGIHFRGRFC KAPPLASGPA/RPPCLSLPPPW APVRPKPPR*APPPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRG\KRH SGATEPANGTWARRRGPGRDS SNQSSGGGERSQLRHRGWRR SRPLLPPGAASPLAGEDPERNA G\GWRGGAAPMRPKRGPMMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRRPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLAP RLRALRGRSPWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GGQGEEGPAGSEGAGRPLPGRP GCPGTSPRLLPRRPVRKTDVGN RSSFFPRAPGRAPHACQPTQLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSAFI*QFTNSINIFI*TSFC *TASVHLSCIVAVFCFHPQCQCS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQFTNRVKLLMPAK HQPDLILLRHHVPLTRVHLFTAI QLACLGLLWIKSTPAAIIFPLM LLGLVGVRKALERVFSPELLG LDELMPEEERSIPEKGLEPEHSF SGSDSESELMYQPKAPEINISV N*LE*ESGSGDPRKQHEVLTQE VRTFLAFGLTSRCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRITKDRVKNLTCITY TILPTDLQPGCGLPRSFYPSSKP TSFWLWACKLFPPLPISFNPSA HSKTAHGHSGKHTEAGM*WS* TGEGITGRCCFVSIKAPPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QSNSKHQEHQLAPDVAFKMK GACVCAAGFRGWRCEELCAPG THGKGCQLPCQCRHGASCDPR AGECLCAPGYTG VYCEELCPPG SHGAHCELRCPQNGGTCHHIT GECACPPGW/IG/TV*GPPSPGSL LGCLPRETSISLISSIQLCLYLL

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8066	38434	A	8121	1	1050	MLIMTFHGLLPCMQMACKWQ LRVLVAGIRCDSTCPPGRWGPN CSVSCSCENGGSCSPKDGSECE APGFRGPLCQRTVHILYPRGCGI RDVGESGNRKQKAVEQYREH WTVSPEVQCSASHFSSVRPKSA CPPGFWGPACFHACSCHNGAS CSAEDGACHCTPGWTGLFCTQ RCAPGTFGYGCQKCECMNNS TCDHVTGTCYCSPGFKGIRCDQ GIMLLL/CPHCGAAGPICLASAA AEREGPRPGSPCLLHTCHEDDQ HRLPLSGANSIPTYR*SGRPDS PLRTEALILPQ\CQKFSGSQGEV CAVSCAAGTYGPNCSSICSNN GGTCSPVDGSCTCKEGRHICLQ
8067	38435	A	8122	3	732	IRCDSTCPPGRWGPNCSVSCSC ENGGSCSPEDGSCECAPGFRGP LCQRICPPGFYGHCCAQPCPLC VHSSRPCHHIIGICECLPGFSGAF CNQG\QAPTGNPSPGWYRS*EM TDPRCSCR/CLSGESTRHTSPVL LGTDASETQVIGFVNLAQFLIIC PRKLHYKAQNSKKSNNGSDASS DWKDWGIWDRESCEELCPPGS HGAHCELRCPQNGGTCHHIT GECACPPGWTVGA/HC*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERKSRYWQL HFPPHSSSPTSWRKSLPEMYRC TCPPLTPYGCTCPPLSPYRRTCP PLTMYRRICPPLTPYRCTCPPLT PYRMFSSPLHKEITSAQRSPEPS SRPHSSKAAALR*QPRIMEKQRI YGPSPTSVQPASPPCLDDPRKK AERPDHRATGKRHLPETSL/YA ELVRRAVENPEDSEAPAPAPAA LSPASEHRTDPIQETKKARKSSD NDGSTPLAQTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKLV HNCIKKIWLVDKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLLSLLPYPLF*P DCFFNERPIIFALSNTSKAECS AEQCYKITKVK*NYNRYFNNQI FIHYREATLYPGQGNNNSYVFP VALGVVACGLRQITDNIFLTTA EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLLFKLHYF SFLFLNMQEAFVRSQMYSTD YDQ\NLPD\CYSWPPEEVQKIQPQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCGKVLSTA SAMQRHIRLVHLGRQAEPEQSD GEEDFYYTELDVGVDLTLDGLS SLTPVSPTAS/IAACLPPPGAAR AAGAPSPA*SPAAACPAAPAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHPPCPPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKP\PAVPGLK SGSFKNIKLPSPSPPPPGGAET ARRNKPQGAGPSAAGSAFNW VGVPDLTLEFPFPPGPGEGSPPT QS/SPLKKPSFLH*SPNPHLSPF TPKGPGGSHPSRLSARRFIKGV MGPALGGQSRCTLRGVGEGTP PLALNSTALGPWGCIFYPCFLK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPPRPTN VSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVAVSSP*MVPL NPCIIISH
8072	38440	A	8127	5	829	KPSPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG /LFRPRDFYLRSPRSYGTRP*KSP QSSPRGSARPD/GPA\PPPEPPV KRRARGVLESSRHAAPRRVFHL GREREQSQEGPAWPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGRPATRGRPPGRCCPPA*S PRPSKRSSPLCSRPSPWPTRPS KSSYGASLARTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPD\GPAASARATR EAQSARGLGELAARGSQAGLP LGKGARTTEPGGSS/CSQGPAPW KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRAGRPATRGRPPGR RCCPPA*SPRPSKRSSPLCSPRPS WPPTRPSKSSYGASLARTTTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRS*LYR RGLSARIALVNCRRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPLALFFLLKIDLA MQALFWFHVNFKVVPNSVKK AIGSLMGMTLNL*ITLGSMIAFT ILILPTHEHGMFFHLFVSSFISLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSLMIWVSVCLLLVY KNACDFCTLILYPKTLLKLLISL RRFWA\GQWGFLDIQSCHVQTG TI*LPLFLIEYPLFP\LLPNC PGQN FQHYVE*QW*ERTSLS\LPVFKG NTSSFCPFSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE/YNHVVVFVGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*S\GRVYVLRNLSISSRFFSLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSSKAL GRCFPWTNITPPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQSWYWILVALGVALVLSLLFI LLLRLVAGPLVLVLILGVLGVL AYGIYYCWEEYRVLDRDKGASIS QLGFTTNLSAYQSVQETWLAA LIVLAVLEAILLVLIFLRQRIRI AIALKEASKAVGQMMSTMFY PLVTFVLLLCIAYWAMTALYL ATSGQPQYVLWASNISSPGCEK VPIN\SCNPTAHLVNSSCPGLM CVFQGYSSKGLIQRSVFNLQIY GVLGLFWTLNWWLALGQCVL AGAFASFYWAFHKPQDIPTFPLI SAFIRTLRYHTGSLAFGALITL VQIARVILEYIDHKLRGVQNPV ARCIMC*FKCCLWCLEKFIKFL NRNAYIMIAIYGKNFCVSAKN AFMLLMRNIVRVVLDKVIDL LLFFGKLLVGGVGVLSTFFF\S GRIPGLGKDFKSPHLNYYWLPI MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGTRSFLCFLGK DLGSVNNGFPGDRPYY/MVPRA FLKILG\KKNE\APPDNKKRKK
8077	38445	A	8132	1	208	GTRASSPAPCPSSAPAHSEAC CCRMSLWGSCGGSGDGSSACG SGWNLSMAGTSCSSPAMCSPSR APS*RSASRPRTWRATTSAASS WAPRRCWCGWA*SAT*PSSTTT ISSSPHCGWPCPASCASAAWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCCRMSLWGSCGGS GDGSSACGSGWNLSMAGTSCS SPAMCSPSRAPS



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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPSMTAPAGPRGSE TERFLTPNPGYGTQAGPSPAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTPSP SDTSSCWATRTERMTSPQPTRG SSCTRPSSMLWT\SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTTHLTLIRW WLLTASRWIPPSGRLRPATISP SWKAAPVTRTSRNSNSTACSL EGGPGVSTWQGTALGAGRDP KTPLTLTRASCLGWSMSPSTSG *RPLTSRASSIMRSRTAIPSAS*S RLTTKHTVGGSPSAWRPRPTSR SVSTPVSSSTGGQQLPGSCLTW WSYSPAPCTSSS\PLTPSRLPAA EQSLWGSCGSGDGSSACGSG WNLSMAGTSCFVTS\DLHHLG HHS*RSASRPRTWRSLRRFAAS SWAPRRCWCGWA*SAT*PSSTT TISAHPWCLSACSRSSMGTTT L*RSPPCRRSRAAAWCGSSPS STFTPSSSLFILHGAQPLHRAHH RAPTYTIKHSRRRRRKRRASCR PYIAQCPGQPHLRQVPPRERAR PIAIIIIIRKGPLGGAFAAGELI RPDCRWTVGPGLQRPPTPLIY L
8079	38447	A	8134	1	2994	MQRPCLCVEPMRLCFDSFLLL NQEEEEGVVPCLEENGRAAA DPGPQDQDCLLPTLTPSLSGDE APDRTQSSGDPRERCYLSVTC EEGDNRFAAFCLCGSWRLNHG HADWCDQRRSQISNRLPASLGII VGTRGSRHLLAALRGVKEDRQ TKGCVQTPASLSPWLPGLSSET RAQKTCVLLIDYATFLKLAND DDDGCLDCLQPGVRTAWASSQ HGIRAPRKS\QGSASSPSLRWT ALTCTQNWFCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLSNS QQKNMRCPVRSQTRPPTDVKP VSRSGRREDRRAAGGEGGADR QGPGTARARAPGSPQRRGG*GR NLR\QAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRPASRA PGPATGAPKRPOPTQORQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGGQAARPRATQTPSSAPVA TRQGSGRRADSRRRGVTRRTER CAQPSLAVSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGRE NMEKALNSSLKASLGGGVM CASVKALLTVVIAKVLGRLLAES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIILDGSDLPMSRR KYEPPVFPGRKTYKISIRKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNLIKQLSQEKGR LHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKWAQNKLKAEMDS HKSFKNPLVRCNFAATFGYYK KLIPEIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEIEFAQKGA FDAYVAVGGGSTMDTCKA\AN LYASSPHSDFLDYVSAPIGKGK PVSVP LKPLIAVPTTSGTGSETT GVAIFDYEHKVKIGITSRAIKP TLGLIDPLHTLHMPARVVANS FDVLCHALESYTTLPHYHLRSPC PSNPITRPAYQGRNPISDIWGYS TRWGFVG*VS*RAVQEIPMDL *KARSHMHLASAFAGIGFGNA GVHLCHGMSYPISGLVKMYKA KDYNVDHPLVPHGLSVVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVANS GFDVL CHALESYTTLPHYHLRSPCSPNPI TRPAYQGSNPISDIWAIHALRIV AKYLKRAVNSTDK*RRRMSLR APSWEWSPSRGPARCLPRRFY IT*GS*QRYLLWPLETVDEKY VSLQFSFRRQGVV*ITCLIFLPT *HFFFFHHIFP*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RQ GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIYNVGIHPTGWPPWAFSVVP HVPQRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLP/QER VTSFAPRPQSEEDLAALFEASN ETVLNVHLN
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPQTMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVFKNFCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSSGGKAWKHLLPLLASRCS GTHSNLRAKLRLSQGT VATWP VLKREGEKSCGPSESPDLGAPQ ARDVTPCLGICSSWLLQASGHH HIPWCQLWKL FVVYLVQLQPH REVALVPAPGA AHPTTASVPVC AQWLDPMVIHSH TLCCSEPDSP LAGMGFRPVAQAKHNPAPRPSG WNESSRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSLL*DSPVPE*SLCGTCQQA RSLSEEVD ESSIQQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGYML/KLGNPFL TQWQRRYFTLFPKNI*WRRRGE SRQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKELNETFKEAQRLLRA PKFLNKPRSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSSLLKSFLDLMNGKQNL ENLNALKDFAMMLNLSYATEII LGLEHMHNRFFVYRDLKVRTI DRILHSRYCVNGPLEDKVTEK DFPGNPEIKPS\GKWLGCPS*K PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKT TVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLYQKSKIVILNFQ YPPPLIPRGEVNAADAFDIGSF DEEDTKGIKVHM\CHLFLYFYF WM/VMISVGKQEVTTETVYEA NADTDKIEARKRAKNKQLGHE EGKIAHVSQNISNAVNFNQFLY LTQWQRRYFYLPNRLEWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRRAPKFLNKPRSGTVE LPKPSLCHRNNSGL
8090	38458	B	8145	156	281	
8091	38459	A	8146	2	181	VWCCSRTATLRTRNCARRRCS RGSRTWKRSGRSSRRRAH/SQ YDLERLRAAQKQLEREQE
8092	38460	A	8147	3	670	ETGLKNEGRVLVRHSAWCPLL WGREGSRSSLSSWPQLQGSPLC ASQGVVLQQDSYIEDQKLVLS RALTRSLSRPSSLIEQEKQRSLE KQRQDLANLQKQQAQYLEEKR RREREWEDRERELR\DG RPSWP SARRRCSRGSRRTWKRSGRSSR RAH/SQYDLERLRAAQKQLER EQ\EQLRREAERLSQRQTERDL CQVMGLPAESNLMMILIKTPCV LSKVRK
8093	38461	B	8148	47	699	
8094	38462	A	8149	1	242	MNRGGFAVKILALLDALSTVCS QRVQKAKKQQHLQNKEHFKA LLKQKEKLLKQQEDL/RKKLF*IQ GIRCPQATPHHGQCSL

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLLISGSRMFAGPQ G/PPGAGTAVTLAAGEEGLES STAQHSGSLCSEEPV\PRRHA WQGKSYSRNWLPARPRPALA MSSDTRGQAQLSPSWQLEKKG LSSSTAQRGCRALQGRAASARR \QRGKANPTAGTGWLR LAPGLP LLCPQTPGGRHSCHPPG/K/PGK EGLEQFYSSARLQGFAGKSRQV PDVTRGKANPTAGTGWLR/HR GPRGGEACAMAVRGP RSHEQR CPWSAGADSVS*GHCEGT DGR VASGACLQVDSRGSAGQNLPL DPEHWHVFCDFP
8096	38464	A	8151	2	1749	WVQGASLCVRASRAPLPLARP* VQGAELTHPWGPA AHP*TRNQ KPALGSSGPHSPH\GNPQTPTQA GQP*PHTARHGVPVQEHGRGQR GPHLHKTETPQEATP*EVGSIAT EQA WLP HLCL*RP PPFHQGLFP RGPCMEGAQQRVEGSSSAQGT QVCMGPKTAGDWDGPWLVCW FH*G EAAARILRPGLG\GLSGHP LWPQGGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQQTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGR TAEDPFSFTS SPTIAGGIL\AGATA\NKAS\HNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWA\IGFPLWFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RARRFRAFLPEVAPF PLMFGSGVSGGADLRSVCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQT ATW*TRSPASGCFQICEGNKQDE ACDVRGLQH CERHSLAGPREY
8099	38467	A	8154	1	521	MKNRSRNKGNVEWQAEGIRSK RSVGKQRPSKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSR PQIVP/EFQQ**LFRPE* WRRASGNLQLIPKKRVSA*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQH CERHSLAGPREYMP

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVRLVDIK KEKPFNSKVECAQARTHNN QASDIIVISSEDESGSTDVDEPLE VFISAPRSEPVINRATPCELKC* KEG\QEAIC/SRPRDVPRALGFR KF\SPFEESFRKGLLGQDPDFPD SIEKKPPAEASSG\ALRSKHGEK APMTSRSTSTWRIPSRKR\RFSSS DFSDLSNGKELQETCSSSLRRG SGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTRPPSPWRRMSASMRT\S EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCGQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPLSLPAPSF WLPLRPS\SPPGLPPLQSSLSFPP PPPPVPQPPAPPALQWGLHLPG VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHLPQH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAGSDAV RSFSRGARDSLGQRRLGGTRGA GPAGKGAQRTMGPASGFHSFPP RPHQEPSRSCWQHLLWHCP WPQPSRLPRLTPAQLLQGGPVL AAPPGP*HVPGFALQSPWPLPS GPRSP*DPLHQGALVPLPQGGG PHTAPHCLPSVLSPAIQQLLPT AST/SSRSPPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRPSRPRYLCPGP GPTG/GPGACAAGGVTVGPSED NGRPLLPPQRHPPVGFDSRRRC RFRLPKHKERSPDARFKEGPGG AA/GPGARGQ*DSARTPDS\ALK LVRPPLPIPTGRPSCASGGR*PA GKRGHLSAPPRPGRSSPGPSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIAIDTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQNLQNTK CTAMSNYTLTQGLLQHWLS*T T*FIWLAGTMRLCLSLCVDAA APWVLKTLNIVT/PRVRPEDCSI ARPNHDKNRSMDVLPDRCLP FLISVDGESSNYINAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMLNEMDTAQR GQSFVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTTPSK*\KHNVIASDK AAEKSVVHEHEHSHDHTQLHA YIGVSLVLGFVFMLLVDQIGNS HVVHSTDDPEAARSSNSKITTTL GLVVHAAVFYVSLFPNIADGV ALGAAASTSQTSLVIVFAIM LHKAPAAFGLVSFLMHAGLER NRIRKHLVLFALAAPVMSMT YLGLSKSSKEALSEVNATGVA MLFSAGTFLYVATVHVLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPFYYCHLY VYEYLMFSSHFCSPDPWQDQL LTLRVCSSTSASLGEGCLGVSSI RKGMELSVQAQHHVEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHHNNH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHLY YHHHYNHHHHLHHHHRSHCH HHHHHLTIHLLCQH HHHH FHPT KHLLLAHPQALQTHHNNHDM/ HHHYPYSY

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8112	38480	A	8167	50	1156	LLLQFSRATFILFQPPANTFTSA FSQTRARRGGSGRGGGQESAEE TSEFGDRHAPEAAAAATRG SAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDVAERARRGGR WLTRSGMEHLERCEWLLRGT VRAAVRRYLPWALVASMLAGS LLKELSPLPESYLSNKRNVLVN YFVKVAWAWTFCLLLPFIALTN YH/HDRQGWLGPA/D*/CTLLV GTAIWYICTSIFSNIHYTGSCY QSPALEGVRKEHQSKQCHQE GGFWHGFDISGHSFLLTFALH DCKKRCLCLQ*R*KTDRSHCLH TAITTLVVALGILTFIWVLMFLC TAVYFHNLSQKVFGTLFGLLS WYGTYGFWYPKAFSPRTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVTGSETVPAKAE GPESAAGGQEEEEGEDEEELSG TKVSAPYYSFWGTLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSLEGKCRFKENCR FSHGQVVSLDELRFQDPDLSS LQAGSACLAKHQGWPLERQHA SPMWDNGYLHSQV*LAAA\RE AVVGGGRHPAPTAHKRPQESD SDS\EV RVTPAMPEWWGQMLW TLGPAALPLLGWVHTRGIGSR LLTKMGYEFKGGLGRHAEGRV EPIHAVVLPRGKSLDQCVETLQ KQTRVGKAGTNKPPRCRGRGA RPGGRPAPRNVFDLNEKLQGG APGALEAGAAPAGRRSKDMYH CQQECQAGP
8115	38483	C	8170	166	419	



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8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVFGPP RRVPGPSLWPLEAWPTSSQKV MPQVRCLHLHQVWGQRGGPPR KRWAWAARGHTGLGPTPHGP SWTHSNFLKEKIF*KMFAIKQV GPEAKQSLPNGFPGVATAWSP VRSSVCPLFIKARPC*QLQDSC WDPGGTETADPGHTGLELRFPE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCSPHHPA PQPHQPHPAR/HN*PPPPRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH*RGGN*VY*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHGPSPEGRMPTQA GALHSWVPGLSLSHGSGPHPPP RWTATVQAARPRVPPLTNL
8117	38485	A	8172	1	362	LFDNTVYCPRTERRLLKNDTKH QRHAQSACQLSTTLVCSQHRK VSDFIFQHKHSAPLPQKSKRKQ NQQSFMLKTLNKLIDEMYRA IYDKPTANIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFDKIQQPFMLKTL DKQGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPF SQLLFNLMLEVLTRAVREEKEI K\GIKYLGIQLTRDVKDLFRN* KPLLNEIKEDTKKWKNI PCSWI GRNTNTVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRPFLHSEPLKERQQDSV SLMNWVCMSSKTGQY

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8119	38487	A	8174	2	1936	DKPTANIILNGQKLQAFPLKTG TRQGCPLSPLLFNIVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNL\KLLIS NVS\KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL N\EIKEDTNKWKNIPCSWIGRIN IVKMAIL\PKVIYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA\WYWYQNRDIDQ WNRTEPSEIMPHIYTLI\FDKPE KNKHGGKASL\FIKW\CW\ENW LA\CRKLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DMNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRCWRGCGEIGT LLHCWWDCCLVQPLWKSVMR FLRDLELEIPFDPALPLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGW MKLETHLSKLSQEQTCKHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAIFYQRYKE ELVPVLLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLMNIDAKIP**KY*QN*IPAAH QKSLSHHD\KVGFFHPPGMQDW F\NIHKSINLIQHINRAKDKNHM IISIDAEKAFDKIQPFMLKTLN KLGIGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNKQIKGIILEKEEVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNTT QTESQIMSELPFTIASKRRKYL GIQLTRDVKDLFKKNYKPLLKE IKQDTNKWKNIPCS*VGRINIVK MAILPK*DVLASPSPTMTVTC RKQVQVL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

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8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFFSS CSYLSGPSAHISSLFSRAGSSSF QGGLGRGYGGASGMEVITAVM VNQSLLSPINLEVDLNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETLG RKKLKLEAELGNMQGLVEDFK NKYEDEINKYTEMENEFVLIKK DVDEAYMNKVELEYRLEGPTD EINFLRKLQEIRELQSQILDM SVVLSMDNSHSLDMDSIIAEVK VQYEEIANRSWAEAERMYQN* YEELQMLAGEHGDDLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAKQDMALQLH EYQELMNFKLAQDIVITTYRKL LESEGSWLESGMQSMSIHKMT TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSSFSTSTRAA VVKKIEAQNGKLVS KSSDVL PK
8124	38492	A	8179	272	1813	KCGLRSRSSFSA PSRISAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTS GPGRISSSSFS RVGSSNFRGGLGGGYGGASGM GGITAVTVNQSLLSPLVLEVDP NIQAVRTQEKEQIKTLNKFAS FIDKVRFLEQQNKMLETKWSLL QQKTARSNMDNMFESYINNLR RRQLETLGQEKLEAELGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVDEAYMNKVEL ESRLEGLTDEINFLRQLYEEEIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISR LQAEI EGLKGQRASLEAAIADAEQRGE LAIKDANAKLSELEAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLEGEESRLES GMQ NMSIHTKTTGGYAGGLSSAYG GLTSPGLS\YSLGSSFGSGAGSS SFSRTSSRAVVVKKIETRDGK LVSESSDVL PK

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8125	38493	A	8180	1	3519	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSDVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFQISRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8126	38494	A	8181	208	445	AACVWRERHHRAEECGCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHHPPWGQGQATPALCGGLQ QPESQ*GLSSLGGSR
8127	38495	A	8182	1	1607	MDMFRSGIRRDGGLGDGIVRA RRRRQGALAGSSQPIQAAVPR GP\GPAPRDPRSWPCQGSSGEA *PYWKLEGAGLE/RKRGTETRA VGEQLESWRSWRKDVAGCSSP TPIPEFGAAAPTKS/GPAGPSSTQ QPSSRIWAAPRKRLAG*DTAHK NHP/SAAP*PAPQDRARPK*PPR ADPQRSVTPPRSPKGS*GSPFFP KQ/PRIPKSGAASEASNPLLAITS QVVGGSESETRVEGLMKEESV REGNAAFSRFLRKSVAACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHL*P*TALGERPEARQQPIRFRP PGEPCTHPRSVNELGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRILSKIHTSSTPGHRL/EPT AFRTRSARSPELASGHQAGKVV AGPRVRARGA\PTGRPGLAAR PTEAERASRAPCP\PPQTDARLFI TARPRGKSGCRLPAHSPPDPPSR LPGPRSRSR/LSPA VRVVAAGEK EASGAETAFFPAWGTMALFWSL QPRALQAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSSACVEGVRPAPAMDP *EHQLR\SGLGCCQDTLMLIESGP QVSLVLSKGCTEAKDQEPRVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLLRRLRGGGIFSNLRV QGCMPQPVCNLLNGTQEIGPV GMTENCNRKDFLTCHRGTTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRCLPFKLVTPLVLCFCLWH RSY*EYRNF*MNQISKTLKQR PTRFTG**QPWPRWW/PAPPRPS QGRLAGREWSTQAHPRDSQGP RLCGEGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASGTHAQGPSPPSW PQLTGAVAQDSPSPGLLPRTD APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESCRRRPGT*PTPFQSRLFR RRPSASRIYGLLGPCVISL/HKK QKSLPPLAPPGTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTSRSHLG NAKTPPQTVPHRDHPTPQEHTG DTSSCVAVLSANTRERA AVEC GVTVLNLD*LK*TARSYSMSSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

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8136	38504	A	8191	2	2491	EAGEWEEGPSQNGLVLQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDEERQTGREHAVAI SLSHTSCKSQSCGDDSHSSSSSS SSSSSSSSSSCPGNFGDWDPSF LAEHKRLGLWNSPHSIGAMPGS SLGSPPTIPGEAFPVSEHHQHSD LTAPPNSPTGHHHPQA/LSNP/AL TPAPLAP/APHPHLLPTTPAAPFP AQASECPVAAATAPHTPGPCQS SHLPSTSMPLLKMPPPFSGCSHP CSGHCGGHCSGPLLPPSSQPLP STHRDPGCKGKHFAHSGLACQ LPQPCEANEGLGEEEDSSSERSS CTSSSTHQ RDGKFCDCCYCEFF GHNAPPAAPTSRNYTEIREKLR SRLTRRKEELPMKGGTLGGIPG EPAVDHRDVDELLEFINSTEPK VPNSARAAKRARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRELD RVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQPDINLDLSPLTL GSPQNHTLQAPGEPAPPWAEM RGPHPPWTEVRGPSPVFPENG LVRR/HEHRAQPIPGDLGQDTQ AG\HPSSEEASSKEVPSCKQELP EPVSSGGKPQKGKRQGSQAKK SEASPAPRP/TSQPRGSQCQGP RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIGQPRLTLPPGFK*FLCP SLPSSWDHRQTPT*LANF*KNY F**IWGFTMLGMGSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

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8142	38510	A	8197	1	1620	MWGVGKITDPKDVDTLIPGTC GCVTLHGERHFVDVIKAGPTRS VQGNPKLGSKKMEVSIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMTNTHSDTWMVVLD PMKPGGPFEVMAQQTLEKINFT LRVHVDVLFQDVWLCGQSNM QMTVLQTLSCGVTVFIMTLA GAHGSTLSSGIFSIYQSDSLKCK SGRKAPVGPRVLRGTYSQS NSTGNPDLFVQDHTWQFCTKH SGSYVASMETVDETAFILSTHT SFRTDWELKCFITVRRQLGRQY ERTCYLSFRPVANTVEYCIGFRF ASYINNDMVLQKEPAGAVIWG FGTPGATVTVTLRQGQETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSADACHAELLRTIS TTMGKLMPNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPLDSYQWVKFD VCKPGDGQLPEGLPENDAAMS FEAFQRQIFDEDQNDPLL*SSL* PWLVMVPL/WSSGIFS/TISK*L FEV*VGSESSGSPCAEDRLHM VSRKFHRKSRPVCSGSYLAVLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLL*STVLV FALLHTSIMIWCCRRSLLGQ*Y GASVHLEPQ*P*PCAKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IITDRPGFHDESAIYPVGYCSTRI YASMKCPDQKCLYTQIKDGG VQPQFEIVPEDDPARNAIVSFFW QMLVMQN\SQDYKALLWGKL MPNLLPAGADFFGFHPAIHNLI QSCPGARKCINYQWVKFDVCQ TLEMGQLPEGLPENDAAIRALK PFQRQIL**RIDKRNLLLKIKQL KVFPGKTITRTRFHDEIPLVSSLP SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPIQAEVKGATGECNIS ERKSPGVEIKSLRELDGSLVH KIAEGFSESKRSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPRKVLIV AGHHNWIVAAYAHFAVWYRI KES*WQQVFTSPYLDWTIERV ALNAKVVGPHGDKDKMVAV ASESSILWSVQDGGSGSEIGVF SLGVPVDALFFIGNQLVATSH GKVGWNAVTQHWQVQDVV PITSYDTAGSFLLLGCNNGSIYY IDMQKFPLRMKDNDLLVTELY HDPSNDAITALSVYLTPKTSVS GNWIEIAYGTSSGPVR\VIVQHP ETVGGSPQLFQFTVHRSPVTKI MLSEKHLVSVCADNNHVRTWT VTRFRG\MISTQPG\STPLASF LSLEETESHGSSYSSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTTISSFTVR ECEGSSRMGSRPRRYLFTGHTN GSI\QMWGSGPLLWDMVNKSE DKDVSGPT\EEELLKLLDQCDL STSRCATPNISPATSVVQHSHLR ESNSSLQLQHHDTTTHESATYGS MRPYRESPLLARARRTESFHSY RDFQTINLNRNVERAVPENG GPIQAEVKGATGECNISERKSP GVEIKSLRELDGLEVHKIAEGF SESKKRSEDENENKIEFRKKG GFEGGGFLGRKKVPYLASSPST S\DG GTD SPGTASPSPTKTTPSP RHKKSDS\SGQEYSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGPGN QQLNAGKESRGGGLSVKA*RA RPDSWRPGPPLSISITLRRLLKEG RRHHRALPLCCIIITLASSPNCI AP/TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPAGGRAPGPPYSPVPAESEL VNGNHTPQTATRGPSACASHSS LVSSIEKDLQEIMDSL VLEPGA AGKKPAATSPLSPMANGGRYL LSPPTSPGAMSVGSSYENTSPAF SPLSSPASSGSCASHSPSGQEPG PSVPPLVPARSSSYHLALQPPQS RPSGARSESPRLSRKGGHERPPS PGLRGLLTDSPCTTVLAEARR ATNETPRLGGQLPVVAISLSEYP ASGALSQPTSIPGSPKFQPPVPA PRNKI



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTGPSAAAMAR PLVPSSQKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNV RDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTL\AEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDDS
8160	38528	A	8215	80	430	IAQGPFYPPGWPCSGPGGNTSSP RPPPTGGK GK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEKPPHRIPEKHLH RACAHAPDPGSGGLRIFLTAVH HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAAQAD ENVGEAGRSLAESPGLTSGTAT PQQDNDQLNSEEKKKRKQRRN RTTFNSSQLQA\LERVFERTH*T PSSLFSLFLMPSCLLTILQVWF QNRRAKFRNRERAMLANKNAS LLKSYSGDVTAVEQPTDLQLCE TNACYSPCSLLCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGGRA QLQEGVQKPQAMAVGNINELP ENILLELFTHVPARQLLLNCRL VCSLWRDLIDLVT LWKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGF EFWSLD VNGGDEWKVEDLSR DQRKEFP NDQVKKYFVT SYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPDCGSKYQLCGHLS\ DAAQPHGTFQPD PATIQKSD AKWREVSHTFSNYPG VRYIWF QHGGVDTHY WAGWYGP RVTN SSITIGPPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

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8164	38532	A	8219	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFVQNCLS LARSDSREQGLVLMESRNRE VVPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAAEEC GDDEKIKVDDPLTRRTCQNQASG SAPQQDYDKLKAFGGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	1	1188	MPLDEDP SKLCRHNLKCLECNE IFQDKTSLATHFQQAADMSGQ KTCTICQMLLPNQ/CQRIHQHKS P*TCPECRAICR\SHCEVFYKCP CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTL YRHFQHIENQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHK VIRKVYTCSH CSDSRGTFTKQLMLEKHVQLT HGIKDPDLKE/TDRRHQ*GGNR NKRRPQGPQSQVEVERTGSGV QASQ\GAITQPKLEINVFKVHKC AVCGFTTENLLQFHEHIPQHKS DGSFYQCREHLFVAHKLKEPQP VSKQNGAGEDNQQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMAFIKSKRM SSDEK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8166	38534	A	8221	842	2687	KGECLPSALS LNNGRESLESL ESLSLEGFTRGRAGLR TCSPCL SLPAPPWAPVLP EPPRGAPPPAP RRPVPSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRIKTIKMSSGEIKR TVTRVLPEVDLDSGKKSSEQTA SVMASVTFLSSPASAAILS/SSP QGASPVHGH DQCSFTC/SSSPLN RAPA/GAIIKAANA IQQT VVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQV VSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIE AADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSLYTCPEC GAICRSVHFQT HVTKNCLHYMRRVGFRCVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDTKSMNG KEKLEKKSPSPVKKSVETKKVA SPGWTCWEC DRLF IQRDVYISH VRKEQGKQMKK HPCRHL CQH NRIKHKGIRKVYACSHCPDSRR TFTKRLMLEKHVQLMHS LKDP DLKE/TDRCHQ*GGNRNKR RH QVPQSQA PLHCTQVKGTSASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKS LYTCPEGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHCEVFYKCPICPMASNQNK EDTKSMNGKEKLEKKSPSPVK KSVETKKVASPGWTCWEC DRL FIQRDVYISHVRKEQGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIKVVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKR RPQGPQ SQVEVERTGSGVQASQGAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHKS DGSFYQCRE HLFVAHKLKEPQP VSKQNGAG EDNQENKPSHEDESPNGAMS DRKCKVCAKTFETE AALKTHM QTHGMAFIKSKRMSSDEK

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8171	38539	A	8226	58	391	FAKNDGFQLHPCPEPL/PWSQTRTQSAAWA*GCNYLQPTGAADLLAYFEFLGPEGKTGW*QGLDRDATGAPPSPTARQ/RVGKALGT AASLIPSFIP\*SKKMARETAAWSEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRACGERH GQAVACGGAVAE\ALVGPAPT VGLRRGCPHSAPGGYACPVSSS TYSGLGQRCVFPHYSPRAVPN LVPALGAPK*MGPASGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSLSKEVND SPRAADKSPESQNLIDGTTKTS LKQLDSPRNISSENSIKGTPASP AGSTPPIPKVRIKTTKTSSGEIKR TVTRVLPEVDLDSGKKPSEQTV SVMASVTSLLSSPASAATLSSPA RVPLQSAVVTKQFPLQSPPLNR SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRS YLLPLSRV PAAPSLKLANAIQQQTVMMPA SSLANAKLVPK\MHLANLNLPP QVAPATSELCPVSIKTQPQI
8173	38541	A	8228	1	3370	MIINTIITTTTTITIIITIMSSSPIT ITNIIHQHHHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGPNSTCSRLPELTDSEDCQIYGDTERKRRHSRKTCTWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFS FAYEVCLTV YEIFGLPGIAPSKTKSFSNFLSCI TAIAALSTKKVASDSSKEQVAN SRESS
8174	38542	B	8229	1	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRRKRF*LRAPSTLSGSALL *NRLMRSRRFCATSSCAS**CEQ RTLSLFEGSLWRSTITSRPPPSA ARISSASAPTRRRCASESAACRR STGRAGPGPGGKQQMKAGR\ RGTAQPSSPHPLGIPTHHPDTRG ASRQTGHL
8176	38544	C	8231	1	1062	

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8177	38545	A	8232	3	595	WSSAQPRASRAASRSSLHSS RRLCLRCRAPRRPQLVASAKGR ASSARSRRGRSRSRR*RGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASRGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPS\LPVAVQPALPPGAAAPPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTIQADAFACAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKR AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAWGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGRGEAAWN NMQVFTFTWREDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTLYHPVSGS CMDCESEDHRIFMNTCNPSST QQWLFHTNSTVLEKFNRN*A ALLFDDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINS G FCLNQID*GFGYL*ARFMSWPY WSLLSPFPLIPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTDSIRFQIIPWAGTEMK QE/IIKLKDGSMEEHLKKPLEDY MALFPSVRILRTKKREGLIRTR MLGASVATGDVITFLDSHCEN VNWLPLLDRIARNRKTIVCPM IDVIDHDDFRYETQAGDAMRG AFDWEMYYKRIPIPELQKADP SDPFECQLVRDTLGDADSQQH DVSHLARCQADFLFPWSPVMA GGLFAVDRKWF/WELGGWAFS HGDPQQPWKESLFFPSSCTSPQ VESHWPAGPMPIPEQYCNWSP AVTCPVTAGRVCLGWGWR*RK *WGTDLLGARWKS KPF*SP*T NQDVKNPHDLIEQFQRKEHFC TESAWLGCPQNGSWLLQSQRS HRERWNHGIFMTVISAVSCGLH GVVCGGRMEDIPCSRNLKRVA/ EVWMDEYAEYIYQRRPET/GHL SAGDVA VQKKLRSSLNCKSFK WFMTKIA WDLPKFYPPVEPPA AAWGEQKDMPLSQYTSKGAGI KSYLGSCTHHWGHRGRQKQG NILIAHQ
8182	38550	A	8237	1126	1603	TIMKITGRAGDAIMGADICH/N KDRKVRKPEKPSQDIYLRLLVK LYRFLARRTNSTFNQVVLKRLF MSRTNRPLSLSQMIQK\MKLP GRENKTA VVVGITDDVRVQE VPKLKVCALRVTSRARSILRA GGKILTFDQLALDSPKG*GTVL LSGPRKGR
8183	38551	A	8238	504	737	QLCWAGGKILTF\DQLAVDSRK GCITVLLSGPLKGRKVYGHFGK APGTPHSHT\KPYVHSGRKF RARG*RAS*GYKN
8184	38552	A	8239	1	360	MLGFALLPAPPGPGLV/GSG*SP DDQ\GRTGPALAPSLRSPSPAT LNSAGSEIHDRPRSGAPPTCLR GSAQASTSACSPGANGPEPKPG LGTLRQQLEHIMATNRLDEAG WVACYPTDVR

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8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRGQTDTSLGRLFQ QGPVPGVRHRAHSATSPDHRFP VADLTGQGV\*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAG AHHGHQPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAFL EEEWQHQSVCVPCPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEES
8186	38554	A	8241	2	443	RTSLEFFFFF*DGSTLVAQA\ GVQWRHLG*LQPRPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLF CFYETKRSVTKAGVQ WCDLGS LQAPPGFTPFSCFSL SSWDYRHLPPHLVNF/CIVSRDG VSLCWSGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPVSQEGVSQRTLGQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSGQISGMC SKFRI*NW*DVS WAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV TAP
8188	38556	A	8243	2	241	WSTGLLRSGS/NQSSAGKPRR SQSESPG\GSRSSGSGCQESGT CH*G*RRRG*GV LAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALGVAA R*VEQSDFQCGPAQMGHGLGG IPGCG/PFLGLVVRFLALVASSC PFPRKAGLA AKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPQRWDTA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGV LAP SPEKRD LPLRVKD
8191	38559	A	8246	1	200	LSPKGV SQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPGGQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRYPPPP*ELPKARHP*WS TGLLRSGSISLQPVVSQEGVSQR AFGQSSRGSGSG/SPGELNSLISS GVPHRWDMMA*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCGSGVWKFLCASRKAGKGS GHRDTRSGCGHKGLGRRDMRL GCGNKSGHRDIRGWGTCPPF RKAGLAACKGEGPRQASLRGLT PDLKLVRC\PWAGWSEDLRS*V DLSHGAKNRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RGSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPGGQISG TCS/RAPVGGGSGGTPGRCGSG VWKFLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAACKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGWPKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGHQSSAAKPRRSQS ESLGPEFQGLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTMTPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTGL PSTVRVTGSSASVMVYGASEAI GQHQSSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTMT PLAPATFLRVNCWAGGGGLVT ERNCKPDQMKMGIEIKRERLK CGSKIERRKRLRDEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNHHHHHHYHHH HQHHHHYHHHHHHHRITIIITIF TIITIIINIIINIIITNITIVIFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSLAFSSVVTSDLKSKKRR LSGKSLETSSASLMVYGASEAT GQRQSSAAKPRRSQSESLGPEF QGLREW*YDGGDDDDNDGVD DGGDDSGGGGGCGSGGKQESI SIFD



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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRPLLCSPYTPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW\GAPGQRGRSKTTRPGV QSVSNPGEPAPRAAASSGLSS GAFPAPATDPGICSWAEG LVM GKGHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLPVIRQN ERTQRGKRRGVTRYMFSRPF*/R KHGVVP/LATYLCEIYKQRCD VDIQGEWGTCSKKGMP/HHKC YHG\KTGRSLTIVTPACLLPLFN TTQFRRKILAK\RVN\RIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTWGST*SRQP\APPR\EA HFLEEPNGEGALSCWEPFPYWI SLGLLGVKKKNKKDLWATKK
8203	38571	A	8258	1	747	MSESLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSI VLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKGVVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVVNEESG\KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPK AKRNPVKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPPA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IEVYQSRLTAAISKHSESVKTER NVKLAL*EQDVSQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLEAET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPNPTEQAQY KKOLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKTAEEVTT ELEEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSG\EEEEQRRERSEK KQPQDFHNHEEVKDLMDENCI LKTDAIPRQEICTMKNDNLEKE NKYLKDIKIAKGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENTRLNSELLKEKESKKKLEAE IESYQSRLAAAISKHSENVKTER NLKLALERTQDVFEPAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRRGVG/DSWLAPES RLHVLKTCGSCWWENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKKLKHKFDDLTAEKEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEKDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEIHLQ LNKGNTASLNKKELTLKDVEC KFSKMKTTYEEVTTKLEEYKE AFAVALKANNMSK\LTASN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPLCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQRFTLTKDFREGSFKV LVATNVAACGLDIPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGGRSGSRNYF AVDTASAIAIALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRRDANEQMV LAHVTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVP GIGATQGLRTGF TNIPSRYGTTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLLVSLGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTPPSTALSPG KMSEALPLGAPDAGAAAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLPI AFKVVALGDVPDGLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLT TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIQEPSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLCETGSNSVSQAG VQ*HDFGSLQPPPGFKQFSCLS LLSSWDYRHMPRPANF/SVFL VEMGFYHVGQAGLGLLTSGDP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNSHSTLLTP LSRHLPHPISISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFGLRGSPILYVQ GLSRFRSFSVASGDSKRTRHRE KLPLLEAGERDHNCYGSQIL FQAICKIAKPGKEQSCSKLVGH TFDPLLIEARKPEERQKLPDPCV KWGGVGNFPPVKRVGDIRIFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELALNHN VQPSHSTLFPQAEPPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLVMNAACTGIHTSGQWAPLW PSTVPEMPKSSGLESGTPRTCF VLYPAVAKLLPRGTLAYSGKG CONSSANHWDTQIHSPCHAA AAREYGGKSGISDSRLSPTLFA SFSNMNLKLDKVFVKYGCFCF EATAGANVLIKIRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFGFSNTDFHLPRQT WLQPLSHASLLAAETNTESKND TTPQGDQPATWRLNSGYGYAF PACNASAKTIHGLTEVLYTVLV DGNHNLTKLSLEENCLIQLK CENLQKLEQMAA\E*KSLRRK RATQEECLMHSNLKFKEKSAE YTALARQ\EAAL EGRQKVAE EIEKMSSRESALQIKILDLETEL RKKN\EEQNQLVFKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDRHVDRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEKKTRL SGQGFCL QLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLDIALCASVKPSA GFPQRPVKPLCVLGSGAGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGLRG AGGGTALSVP GASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVDPAMSALGEPPILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFLR TDGLCFCISTRATPPSSARARCV STSLKPASLQLAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGCÆKGSPPYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLSHSDISNRFGTFFAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHPFPYYPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML\ GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMEPVNYE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRRYPRLTR VRTQQPTHRKEKQLLPWACLV NKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS\ PKQAVPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGWNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSSPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQATP/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRRSSGDP PRRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSWLPVYTVRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVDSLSSIGGS GGVGTRGNLLVCELRRPWDKR SIWAGV\SRFLRLSPSRFPLA*LG LSSYLTTTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRITASQLDEFQECL SKFTTRYNSVRPLATLSYASDL YNGSSIVS\SIEFDRDCDYFAIAGV TKKIKVVEYDVTVIQDAVDIHYP EN\EMTCNS\KISC\ISW\SSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGPY CLRSFKGHFNEKNF\VGlassG DYIACGSENNSLYLYYKALSKT LLTFKFDTVKSVDKDR\EEDD TNEFVSAVCWRALTQMGES\N VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPGHLSEKM TDLKDENDAGNLITFPKESLA VGDFNLGSNVSLKIKQDQKLI EENEKLKTEKDALLESYKALEL KVEQIAQELQQEKAAAVDLTN HLEYTLKTYIDTRMKNLAAKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRLKL/SEYVSEGN LIAQRNEMQQKLYMSVEDFILE VDESSLNKRKLTLDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGS LPQYKLSTR TVLS/SKKQLIEYLKKIPSV DHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQMILMALKLRK*KKK*LK KGFAEKRLASRTDICEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPGHLSEKMTLDLKD ENAGNLITFPKESLAVGDFNLGS NVSLKIKQDQKLIEENEKLKT EKDALLESYKALELKVEQIAQ ELQQEKAAAVDLTNHLEYTLKT YIDTRMKNLAAKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCVEYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAT/T/EISEMNQNI SRLQAETEGKKGQASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLEGEESRLES GMQNVSIHKTTSGYAGAPARI VSLQNELLSLEVGVKLGHPTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRNRNRNHTVNSG GSCLSASTVAIPAINDSAAAMSA CSTISAQKRTCCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGVLALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPKRKAPREESETSEEKSPNK WGPVSKQKKQLLDILTIIIRPT RGNAYTGLSTRKWKPRSEENA LMQPNKKDEKGTLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPGRSAAHVSTLYRTTP* WPDQRSAAPPTAWAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWVPVGRRLARYATAS GWGAHI*ASSGASE/PAVVSVL AGSGASPFHSASWDPPAHPAAA ASAAAVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSFWLLRGLP CPSQAVTTRHRSQKEKLKRN KSCVNFMQSQSVSKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHVLDLDSGLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEQNGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSHAAELRVEV EQPHHQLPREGSSSEYSSSSSSP MGVQAREESSDSAEENDRRVEI HLESSDKEKPVMLLNHFTSSSA RPTAQVLPVQNEASSNPSGHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHLLSL EERNKGSGRSSMKVDKSFGSA MMDVLPASAPHQPVQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRV LKTAQQPALVVETSTAA TGTPSTVLHAARPPIKLLSSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCPAPSSSP ALSSVPESFYSSSGGGGSTGNI PASNPNNHHHHHHHQPPAPPQP APPPPGCIVCTSCGCSGCSGSSG LTVSYANYFQHPFSGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRITLCP PSWGHPR*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPL\CKV YVGNLGNNGNKTELERAFGYY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRITLIG\RV REE\LSNGEKKK\SRNRGPPPS\W GRPPSENDNRKEESFPPR\RRSP R\RRSFS\RSRSRSLF



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRPSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNGGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRPRDASRLGRLF RPRSADPVP*P/PVAIGRDLPS PDDNGQRP*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTSIPVTIPENTSQSQVI GTEGGKNASTSATSRSYSSIILP GVIALIVITLSVFVLVGLYRMC WKAHPGTPENGNDQPSQDKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*PQSDKESV KLLTVKTISHESVILNQNMDEI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIAILRKN KTDLTELKNSPQEFHNTLEVLT AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVSLSLVKEQ AFVAGEELEVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPFKSQVKSGRPSL RLLEKILGLQVQQAHCISQD AQAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKRFWKSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGVPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIEHKRKA/KGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCEMVG VGPKGEESMAARVSIVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGEELVVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPFKSQVKI QDAQAAMRLYVMVKKEWES MARRRPLLAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAKGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKQLGQSEGSVSLSLVK E\QAFGGLTRALALDCEMVGV GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELVVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRDTQKYKPKFSQVKSG RPSLRLLSEKILGLQVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDRRC LQKHFAKIRDRSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAFITGSWDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRTQG /RRVTTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCPOVGRLL PSLLAPGKTTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPAWGPLADSSK PHRWRPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPPSSCFPQGLGAPRLSWPRAPC Q*ERRRNLPWT*STSR*PPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQGRSRI SVLSASPVSDVSYMFGRTPHSP PLAKEHA\AAAPHPSPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSFGLALK VQEVPAQAQSRPGEDSNDLIRH FLIESSAKGVHLKGADDEEYPFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVELTGTALA VQKAISTTFERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTTLRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLV TALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGGKDVYPGQCLWE GCEPFQRQRF SFITHLQAANCR/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSSISTEVYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKATRC*CRWRFRFIMPV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFEVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHIVVGVKRRRAIPLPI QMYYYQQPVSTSVVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTMPPPSPSVRVQGPNSS QPSPFSGSSQPGDPMRKPGQNF MCLWQCKKWFQTPSQVIFYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSTHILQDKHCSKDAL LAGLKQDEPGQAGSQSSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFT\DEK EGP\TKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPPPGIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMDSLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCSASYVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWSPSLLGQTAALCANGAGP AGTPPGRGPVSARFGRRGAAC VCSPSPSPLAPLSR*RFVVMW WQEA*RRGPRLPLLSSLPAAAG SGRAARAAAELPGGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQPIG PRSP*TAALCANGAGPAGTPP GRGPVSARFGRRGAACVCSPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGELILKSAMSEIEG IQSLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTK\V EAPGTES/DPRLPTVLESELVQRI QT/LSQLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREgear/ QLRERLEQERAELERQ/RQAYQ HDLERLREAQRAAQPSP/HPPSF NGEGLEGPRVSM/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLLSATNQFORQAAVQQ/ QIPTKLAASKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLSTLKTGV WPGALERARARRQRSLATWD QHSRTGTASFDLKQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQQYKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TGVLKDG\WSALRPV LRTTRSSLAAPSLF/YFHDNS NWNLLIRWGISFCNQTVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGGGLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSML TARSRCWTPWRSSHATAATSE GEGWGVGVLIADRPGWASDEG DGEgggggLLTSAEFGELAAV GEAGSAHPMFSFRPRYSTWCLT HIGQGGLELLTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQPLPRLKRFCSLSL SSWDYRHPPHPANFCSFLVVT GFHHLGQAGLELLTS*S/IPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSCANS VNAGWNQDPHTVIRFIRSMAT AGSTRYR*GLHAAPSPPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIIYVPLIHK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPPGKAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPRTAD*SLPTRVC CSLSALHTGSESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEVLR VIPEAAAWTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPGAWCTCG PPTSMCTGALDLVSWAGRMP WASQRR/PQGDRVRDKPGTCFL PSAVPVLPVCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMEGTSK YRTF/ILKHPGQEIPSEPTPPGP/S SLTCRATWSLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDVAK ALRQPWGKAQVEKNQLSQTCK PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMIDRKERHLIPPNVHKR GVGQDGRLEAVSVHSSHGEEW KGQVNTPEPSTETSRSGDPIMNP LHQGLKSDMQSYMESQQSSPS ATHEAQGALDTQASWKKQQQ LRKSRRAISSPQADGVQHGHEA RHCHDVLKRDRQTSWPCKMSS LAEEVVAADTWLLDNGTMQA TGRAAQVREQKGMDLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*PQSLSVI TAELEPVRAPSLIAFFHGHSA MCPFRWYRSRFSKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKH IRI ISVTAAAIHPVIGSFPIPG/PI RALSTFLPVHIQRLL*GVHFP SF SCRAGAGVL*SASWRQQVQ RQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLGSPVNP LL LPSGSFSLLPAGHSHGDGPS AS QMH*FQNQTHPVP*PDPAS LPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDGNRGV VA ALHHFTGAAARQHSGSPLER GP HPQL*SPRS*VEGHWLEI/L QA* S*VLPQKQPHQPARGWQLLS H WLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVHVL GS RPM*PW*RPPTRFQWSEVQE/ V MELTTMRPRQPPPPPPPP* QQ QQQQQQQQQQQE*L*LAAT PR APGTLAQGSLTPSQIFSA* RLKT DAAGSP\GSPQTITDAELRV TLT VEGKSVPFWAVLPQSFTDSP H
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ES MLE KGKIK*LLKPEGILPISEPP SNRIF ACWGKPAWTACCNLSLRARR *R AISCCPSHW*KEKPPWRPIR KPP LPAWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCPGE RI CWRGTPD/SDPSTPTY*PPLE KE VAQGRDLIHASGCLWS*IPLE A LQGPGGCPQFSQVCCIPVIPT VE MKQGRQQLASDFQDQQDLEFY EILSWKPGILIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKKGRKERKRDYGGKEKK RKKGRKKGRRKKEKKKKEREK ERRKEEKEGKKRKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESYFV VVTLTTVGFGDFVAAHPSDHL CWVIVTCKGKYLLPDSPQEKAT DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNLRLKGPEQLNKH GQASEDNIINKFGSTSRITKR KNKDLKKTLPEDVQKIYKTFRN YSLDEEKKEEETEKMCNSDNSS TAMLTDCIQQAELNGMIPTD TKDREPENNSLLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNPIPHVENKDITGK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTNSTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKGPEHIERS SSQPPVAAFGEH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFCKSSQVQRRF FMGNQVLK\PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDLTLEDLFTT KIPNPRFQRLFQCLLHRAHPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA AVLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTGTDNPLSGGDQYQNI TVHRHMLPDPFDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEFTDLSSRFSKSQ LDIIHSLKKCDISLQFFLPFSLG KEDGSGDRGDGPFLGGHGPSF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFSESLRKL CVF KKIERHSIHWPCRLTIGSNLSIRI AAYKSILQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIHQGFYRGS DIVPFSKVD EEQMKYKSEGKCF SVLGFCCKSS QVQRRFFMGNQVLKVFAARDD EAAVALSSLIHALDDLD MVAI VRYAYDKRANPQVGVA FPHIK HNYECLVYVQLPFMEDLRQY\ MFSSLKNSKKYAPTR/EAQLNA VDALIDMSML\AKKDDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPR\ EAFYPPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQQQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNFLKAL QEKVEIKQLNHFW EIVVQDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDPRGPGRALQRF RSPSSPGGNPA\SAAPSPRSKLLL GPPG\AAAATAAAAGAKPELRH RLPPSSATTASRVACHFLLAS AAATPAFSPPPPP\PASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDSAGELGGLSSDACV/PD SSEPGVRRPARRRTLAAHALTHA STHTRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLLIGREQTVSAILLGGSRK APTTTVAVASAPPVTAAGR\TP HASIRIPRMLSKPSPPQAL*K GVMAQAQCPPARRGQAGLEGT \GFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKGRRWRGSSGDP GAWYCFRGRRRGPSCPSLRTAT LIPGLGGHGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKLNRVS HVWGNRRGQHIRTMDNRP\A GKTTFV*IIVSPLALLALTHSW DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRLSRSTRCS WRRK

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8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGGMQLRVSSSENSMGKSS RERAAADLPQGSCWHELPGRLI NTRISLKPRHVWNLSSVLCQVV KKVKSMQMFHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHI TVGHETVMGRLMF FSPAPDNFDQEPILDSFNFSQEY LFQEQYLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGQSCSTG*RT GTTPTASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGIIDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGGHRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLLSPSSSALHSSPPSRPWA ARHERSSWS*/PRALPPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHWVSCGAAPPHG GVGVGYRARSREGGGHRVPA RTREVPPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPAPASQVGARC AAGAPCPLRPRVWRRGAVGAE NAPSELAASPAG/GGRGAGSG SSDLAGRGA VAARFPGG*GHSR QQHGAEKDGGQGFLGSQPPPR SCAHQRRRGACSGNAAPSSSAR RMSASSRSRQPEKATQSRNSNA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHINYKAMRKLMKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRLL SEMRIHLLPSMNPDPGYEIAVHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGELVVSYPFDMTRTPW AARELTPTPDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKKLTLTRP TPLVTAGPLVTPTPAGTLDPAE KQETGCPPLGLESRLVSDSRLE ASSQSFGGLGPHRGRLNIQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVQFSNDSRTW WGSRNHSSGMDAVFPANSDE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVS DPN DLFLEAPASGSSDPLDFQHHNY KAMRKLMKQVQECPNITRIY\ RIGKSYQGLKVYVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLLMQFLCHEFLR\GNP RVTRLLSEMRIFLLPSMNPDPGY EIALHRSS*LVGLSEGRWNNQS IDLNHNFADLNTPLWEAQDDG KVPHIVPNHHLPLPTYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGELVVSYPFDMTRTPWA ARELTPTPDDAVFRWLSTVYA GSNLAMQDTSRRPCHSQDFS\ NGNIINGA\DWHTVPG\SMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWE\NNKDALLTYLEQVR MGIAGVVRDKDELGIADAVIA VDGINHDVTTALGPGIHWRLA* PPGD\YMVLDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTPDPVCLGITSR GCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKSVFRLGSILPI TFSFPSDSQGPLLQVCRSLLEIH SRPCLPGYHQWRLQNSKDCCCL FLPLEASSQRGTCQMPAGALFY KVSVDPFWEVSSSQETWGSIGI LRRQSVPYQSSSAVLGDLLFSS EPACKNKSAEAVPTAAPSPRDA LSREESREAVWPQRLSHAPM GSAQLELPGGFVYTVRRKLPTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNFKPVDLSLLGSMGVG SVELDHLAPWLQPPFQESERFC LSGVPVSPPLSEEINHALPKATV MASLGAVARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFRVTLHWGKGNDQTFWGL VDTSELTLTPNDPKHHYGPIIK VGAYGGQVINGVFAHIQLRVN PMGHWTRPLVIFVPERKISIDI LSSWQNHIGSLIGRKTGDSWR MTVGYRKLNQVVTPIAAAVPD VVSMLQINPSPSECLKMSHQI TMRPELPIMNWVLSDPSSHEL YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGDRD GGYTWAQQHRLPLTKNDLAM AT/AECPISQQ/QRPTLSP*HGV/I PRGDQPATWWRVDYIAPLPSW KGQRRFFTRIDTYSYGKFIYPAP NASAKNTICGLMECLIHCHGIP HSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNQC*PQQPRLHGTHW DPC*DME/CPSVCPQSPCPSPLR DQWTIPCPDPLSPQTMAAGR W
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAARMISF SPSQ\RWKPFGESWRPPARRGT CTPGAHPRPSPRAAGPAHRP/ PPP/PSELPRAPQRPGRNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTHPS/ RSPQLERDTGGASFRVDEGEER GASSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRP PRAAGPAHRP/PPP/PSSELPRAP Q\GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPGTWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTRFSPTPHSQQ ASQAGTLWPWWLRSGTMLTSP LVGGPHFIRNTRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCST WPSAQATRCSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TSLAVGPGTGAT ELVLPLEG/HSPTSVPCTSRGGP TWAVATYRPP/SPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTPPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGSIG SRPASTAGPPSR*SRSPTSSTPPP ASRPSTRTARRGSWGSGITIQR TSGCPMAPPFPQALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTWPWCATQASDFTR GKSVKTTSRRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQTDLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSFP SSVTNTLMMTSKTITMTTSTD TLGNTEETSTAGTESSTPVTSAV SITAGQEGQSRTTSWRTSIQDTS ASSQNHWTRSTQTTRESQTSTL THRTTSTPSFSPSVHNVGTVSQ KTSPSGETATSSLCSVTNTSMM TSEKITVTTSTGSTLGPNGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHPRPISQSCPRPAVSCSR GPSALLCRPLLPEDAP/P*GSS WP/EGPLWGPRYPVS SVGNH WSGAGVADE/PAAPSRPAGARR APSGGRPAAARCSRRRASRSSR PGPPAGRAGR*ACPAARSABA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRRSSRGHTVGLWGQS PGLGTKGRGGGG*EDPPGTPR GQDPSHSAKQ/PPAGLPAGVK WGPS\SSPPSPPP\PAKRELQGR PKFGRCEGRRAGDPGPS/GCPR AKQTHSLGTAVPVVVIYYPVH ALSPAANRTLN*NIISSQPLGTPP MVPGE*HGPRGHA*PRHPLPK DPPQG/PAQR*RGCRSEVQRRP GTLP*GSPP/GNSHNLGPAMPPR *PPTAR/PQFPNPQDPRPLGQSSS EPLPRCPKTLCKTRHPDLRGRG KQPRGWAQVPPGEVFGGNGA QLEA*EGARMSASP\P*SLESSD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRESEKTSWRRLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCASLLAMPSGCPWELSKVA QCFPLKTGHPGPQEGSNNLKV TQQS

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8328	38696	A	8385	1	771	HSLIHSLTHSLPSPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPAPCLTLVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQQSSCQPACCTSSPCQQACC VPVCKPVCVPVCCPVCCKPVCCKP ICCVPVCSGASSCCQSSRQPA CCTTSCCRPSSSVLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFPLTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSITAHVPVLGS\SVNP PHPEVWNL PCTWKRLATSLQQ KFTFGPKLGITNVDSDSL S
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQGN C EANDWPVSTALA\KPRGATGK NKSPGNDPAAA IATAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCRTGAVQKQLLL*NRRRFPGS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWP CGGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCVWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGQQCQCHKRPRGPF GFHSPG PRGGSYISDL SGQESPEAGGGFP PRISALRPKSNCSFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPPCRAAPQPKPPRRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP



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8334	38702	A	8391	98	1286	TMPPTRFLAHLPDQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAAAG PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPPIA LQRRQ/QARTPSRPPIALQRRQ RHGRHRPRP/RHRSAEKTART PSRPPIALQRRQRHGRHRHGH/ HRSAEKTARTPSRPPIALQRR QRHGRHRPRPPIALQRRQRHGR HRPRPPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHGHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTP L AMATHRSTKKITAWTPSRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWDPKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVESWSPGVTVVGVTEG SSKLGPMLLSTSTPDEAWSPESS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSSCFSTSSFSLS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGGA* AWMRDRASIGADPVWLCPSLP SSFLCFSCLKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLQDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWITRWP TVSELEMPDLPWFNVVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRVRAAPASLK SLVIAL\FCMSDATAGTAVTQL QNLNTMGIIGSRGVRDQVVAL NHQRQVGVANRQGTTPR\QRGT KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTTPKNNRHDTSPS QRTTPQQKRDAQHQTETPNTTP NTSRPPSHVSFFRSKKRRRRPQ HEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENNRQLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERVNASREVEPV\EPENC HLIEELESSEDIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQNPRQALESISGGFDKELF NPHG\ISIFIDKDNTVYLYVVNH PHMEVHCGRIF*ILREQRSSGY YL\KTIKTWNFFKSVNDIVVLGP E\QFYATRDRHYFTNSLLSFEMI L\DLRWTYVLFYR\PREVK\VVA KGFCSA\NG\TVLSQTQKYV\Y V\ADVAA\KNIHIMEKHDNWDL TQLKVIQLGTLVDNLTVDPA\T GD\LAGCHPNPMKLLNYPED PP\GSEVLRIQ\NVLSSEPRVSTG YANNGS\VLQGT LWASVYHGK ILIGTVFHKTLYCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETSAT GACGEAMAAAEGSSGPAGLTL GRSFSNYRPFEPQAFGASSPS\W RLDGA FSGNERAEGCKVPQEG RLLKLLAG\LTRP\DV RPP\LGRG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTDDFFYPLVEDPYMMGRIA CANVLS DLYAMGITECDNMLM LLSVSQSMSEEEREKV TPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEF\IM PDSAVVGDVL\VLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREE\VEL\AYQEA\MFNMA TLNQNC CRV*MHTFN AHAATD IT\GFG\ILGHSQNL\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQGTSA\ETSGGITGFCLP R\EQGGLAFCS\EIQLPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEV\LPRG\ATAAVLAP\DSS NALLLSLAREIERTEVVWTLEP LSTITDGSQELIVKKFPKKAACI VVPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPCGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRLLPAPRFGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKETTENTKFE VRLLRDPADASEAHSSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREDEEEE EGENYQKGERGEDSSEEKHLLE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSS\QGG SFPS\EEKGHPQ\EESEESNVSM A\SLGEKRDHHSTHYRASEEEDP YGEEIKGYPGVQAPEDLEWER YRGRGSEYRAPRPQSEESWDE EDKRNYPSELDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGAWKEL DRNYLNYGEEGAPG\KWQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPYYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEVDNVWGYEKRNLARV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPIIP/CRQVLKTSKCPTRQA DLGHCSDPCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADep QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEGENYQKGERGE DSSEKHLEEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQEESEEGEE DATSEVDKRRTRPRHHHPRSR PDRSSQGGSLPSEEGGLPQEESE ESNVSMAS\LGEKRDHSTHYR ASEEPEYGEENKRGYPGVQA PEDLEWERYRGRGSEERYAPRP QSEESWDEEDKRNYPSELDK MAHGYGESEEEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGAWKELDRNFLNYGEEG APGKWQQQGLQDTKENREE A*VFKINHFSISHHTAEKRKRLG ELFNPPYYDPLQWKSSHFERRDN MNDNFLEGEENELTLNEKNFF PEYNYDWWKKPFSEEDVNWG YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKKSA\EPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLES LDMEAMLDTVQAWLS SPQKFARAHGVS VQPEASDTHI LLLEGFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTTYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLE VQQPDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTKQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMLRRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRSLN IDPAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDDEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHFVLCSTGSGVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRATGAFSCPAQLIF AVSSSSSVPTSISSSSSCVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPD SVAVSNKTTARSKTVLSSSSLI RRMSLSISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSYASQKK TFEINPRHPLIRDMLRRIKEDE DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDDEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKTLDMIK KIADDKYNDTFWKEFGPTTKL GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEK\MKEKQDK IYFMAGSS\RKEAESSPFVERLL KKGYEVIYLTPEVD\EYCIQALP VEFD\GKRF\QNVVQCKECKFHE S*ENLRK**CKSVEQRISALCLN WMKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVRDWSWP TLGE/RSMKAQAYQTGGHLL QIYYAESERKHFEINPQTPRLIR D\MLRRIKEDEDDKTV\LDLA\V VLV*NRQLGSGYLFTQTLKAY GDW/RLERMLRSLNI*PLMPK VEEPR/EEPEETAEDTT\EDTE QDEDEEMDVG\TDEKGRTSKG
8351	38719	A	8408	181	462	GMASASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVVPSQQNLPLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGCL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTRQ MGLLFTWYDSLTVGVPSQQNL LLEKASVLFNTGALYTQIGTRC DRQTQAGLESAIDAFQRAAIGP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTTT*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQSGYFHTG RSWQPVA**ECHILRGNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVG QNTDEDGYLYEDEITDMDLR QACRTPSRDEARVELLMTYFIQ LGFVENRLFPTWQMGLFTW YDSLTVGLVVSQQNLLLEKASVL FNTGVLYTQIGTRRYRHTQAGL QSAIDAFQRAAGVLNLYKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEEKISLPGIWNEFFMLV KVAQEAAKVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSRGRTE PGFSPC*KSAAPRQAVSLKSASP RPSSSS\GPAGISSPGRESRSCGT QNILGPFQLVSG*PL*GR*CQFP AAAEPVAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR\PGAAVECGARSRGWGQQDGPSPSPGKAQVPAEPAPPQT\PGPPEDPCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGGSPQAAARLVDWRVSRPQNQLPNPGP*DQPPRPAIPTATPSGCNPGFPRAPRRLSSEEEAPSRAGPEEEAPPTYTPRLRRGRPARGPVCR/PPAGPPAV*PEFRRFALPRASVSGFQSS\VAAGGAPDPGPRLLGYTDAHGDLPLTNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRP GHEPAVLQQ/PAAGP/PVPRKPNPSPSRSPAGLRPPGRAGPLTSPRCPLPAFTGHRTP/VGPRPKAAGPRRRTYQGRGMGPRPRRRPVVPVGGERSHSHPSGPPLRSPGPEWGLTSSSCPARGLEGVSA/TQNQLPNPGP*DQPPRTCHPHGYTQRI/PSGPPLRSPGPEWGLTSSSCPARGLEGVSAPISSRIQGRRTSLPEPAIPTATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIRKKKCEPGFARVWVKGPYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGPDAPFTTGVMVFTPLITLPRP*PPDLPPRQATASLLPAPPARDPGGPWGPRQ
8368	38736	A	8425	1	252	



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8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTLTQAI DKFSADGMRLAIADAGDTVED ANFVEAMADAGILRLTYWVE WVKEMVANWDSLRS GPASTFN DRVFASELNAGIIKTDQNYEKM MFKEALKTGFFEFQAAKDKYR ELAVGRDAQKLVRFIEVQTLL LAPFCPHLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLMEVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKE\YPPWATLPPCLFLT V KHFEQQLTGKTGLDNK\AIA SE LGSMPELKKYMKKVMPPVAMI KENLEKMGPRI DLQLEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLLVN/RPQPI MAHFL NPKLEIRQGD\TVIPIIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRSSCPWEKEYTREDPPFPE ACLFS/DVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAEEGDADASDAK RKEKQEEEDVYESEEEEEERE G ENDDDMQEERNPHRRGARKT QEQDEEVGL/GH*GCPVPSRPP DAAPETHPQPGAPGA\EAVER R VQAVREIHPFIDDYQYD\TEESL A WGQVTVKLPLMKINFDMSSLV VSLAHGAVIYATKGITRCLL\NE TTNN\KNEKELVLNTEGINLPEL FKYAEVLDLRRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFVY GIAVDPRHLSLVADYMCFEGV YKPLNRFGRS NS SPLQQM TFE TSFQFLKQATMLGSHDELRS PS ACLVVGKVVRRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNGGRNIKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAIEWIKKW PTVREVEIPDLPLFNVEEGIKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGHIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLINHVVSRSVD RKPTTFLNLYKQKTSRNGRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHYHHRHHHHHHHQ HQLHQHQHQGGGHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VCPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDTTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPELRDARPGARNSNSRCPI TA/RPPDTDMGTPSAQGAQSSA\ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSVAG*TSELRG GGFASSLSGSPCKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSPWEPLSNSAAQTPFF PPLHPTAPSCPLGLPGSPPGPTSS TGDIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTNEKKE KHQQQTKRRNTNTRKEGETP TPNEKKEKHQHTKRRNTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGHLVVGGRPSAHH HSDLLF*SSAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAH\APPVQPSTAQSLPAP CLPLGASGGPRQHPPDV\SRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPAGPSAPHS PCQP\PGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGGKQSRKAE NYKNQSASPPPKDRSS\YQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSSVLNLQLLL SGPKSAVLVVITILMCSETNLSF NEFSSEFKTTSPEKMSIRKPQEK SADGKQFLQNDKRNPKLGNTQ TLLRNDVSGLLSRTKRNI VPPG WYSVYVTNNYVFKKSPKAKK VSESTTKNDPVKNIHIESHNID LNKIAMNSNLQVVVKRLEDTIS IAKKSNNQPLSEGYKASKKLI EIDGKDQHADRNM TLTNRMT CKEQSLSKSVVASGNIINSHCM PTVDLNNKRLNLKKSSILDMG RLISSVENVPAKYEGTESSVS YSSPIKLMFLSEVKSSEGVKYTL TSVGTSHSNVVLPEKPTTHHV TEKTETNEDISNANSENYHSS HYD TDTFQRELNKFSHAKETA GSSTMFIGDINS DKPQEEP KDNS SSATDP SF/NKKTR*TKKNRSPS CETD*ATNWKT TKA*N*SNKH
8382	38750	A	8439	115	523	QFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRLDPAMDLL VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLEIHHPPI*I RDMKSQMQLFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLNFIRVKNKEY VCT/SYHTKLLFNNLHMA LILIV FKYQSFFSLHSCNQPHAKVLE PALELQDEDMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEESNKRLEAE IEYQSRLTAAISKHSESVKTER NVKLALAE*TQDVSQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLEALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQQLDDVHQKECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPPDDLILYLENPKDST KKLLELINKFRVTGYKIKLQKS VAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSE KKQPQVKEGNNTNKSEKIQLSE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCITLKQE NEEKTNVNMLYKKNREELERK EKQYKKEVEAKQLEPTLQSLE MKSKTARNTPNRDFHNHEEMK GLMDENCILKADIAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAISK HSESVKTERNLKLALERTRDVS VQVEMSSAISKVKAENEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLEALETQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICH\QREN PWLVQQ \LDDVHQKEDHKE\K*LISQRGF IESGKKDLVLEEKSKLTNECD HLKESLFQYEREKTEGVPKKEN EELRKL FELISSLKYNVNRIRKK NDELEEEATGYKKLLEMTINM LNVFGNEDFDCHGDLKTDQLK MDILIKKLKQKFDDLTAEKEAL SSKCVNLAKDNQVLQQEFLSM KKVQQQCEKLEEDKKMLKEEI LNLKTHMENN RVLSKLQEYK LELDEKAMQAVEKLEEIHLQEQ AQYEKQLEQ\FKQGYNTASLNK KELTLKDVECKFYKMKTAYEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCVCIRCISSLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQGGKSVKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTTGTAAFLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLKYTEKL QEPPASAICEAADKEPPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIQIRHVVDQEWQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTRPSGSLCDLAG STLAGRWMHQSFDGMEAS KLPGQEGVRIQPMSETRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREAISRLKDRPPLRA REDYDQFMRQRSFQESMGHGS RRDLYGQCPRTVSDLALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEGYFLGEPIQPRLRYV TSD\DCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTHISTPTPTPTLA NPTAVGLEEDREQDVGTTSSRG GAWDTRIKRELEKMSEKCGGQ INGGDIAVFASRAGHVCWHPP CFVCTVCNELLVDLIIFYQDGK IYCGRHHAECKPRCAACDEIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRKEDK SPEVLP*KSSSGTLSH*R*RPH* SLFLGSRVSLPSGECRGP GPPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGGQHW HATETCFCCAHCCKSLLGRPFL PKQGQIFCSRACSAAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDP LSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTQSPLQLLSQCNI RTSYSP GGQGAGAPPEMWGKHFSNPK RSSSLAMTGHA GSFKECREDY YPGRLRSQESYSDMSSQS FSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRHRHGEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSSAQGVGIAAALDAVLIRA HQRTQGCHHELSALLAFEKGSE KKEEEE GQVSRSSSLKVQAQE LSATEDKGHISPFFWEAVYHYA SGECRGP GPPYSHSLRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPA LEKAMRGID QGQMTYDGGQHW HATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSAAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\ C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSCLPPEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFVMTMTGAICEQCGG QINGGDIASFASRAGHVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHADECLKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGQHWATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHSRYLHSN PMHSGDFISNIHMRKPKFREIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGPRDAIMS SLHSWHLRKGVRRRRRKKEDK SPEVLP*KSSSGTSLH*R*RPH* SLFLGSRVSLPSGECRGPSPYS HSLRLYSQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGQHW HATETCFCAHCKKSLGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPDSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAPPEMWGKHFSNPK RSSSLAMTGAGSFIKECREDY YPGRRLRSQESYSDMSSQSFS ET RGSIQVPKYEEEEEEGGLSTQ QCRTRHPISLKYTEDMTPT EQ TPRGSMEALSALSNATENQD DCS FVNRLKGSNNRPGRQELMVT WNFIQERNGSGMDQCDDGGG KILDPVYILTVELTGFAKWKM FSVKDQSVNVLGFAGLSADG GAKRQEHLRSRFSMPDLKDSG MNVSEKLSNMGTLSNMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGTGLPCALT EIYFRVTIYFYVEIEK\LLIIVAK QEGLSGN\HKP\VERKYMTYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPVS
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMRALTRSSASCCR CSGASSICTGTSLSSTGG
8402	38770	A	8459	31	454	QSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYYHHYHHYYHHHHCHHHYH YHHLHHHHHHHHHDHCYYH NNNNNCHHHHHHHYHHHHH*Y HHYHPHHHHHHHHYHHHHYHH HHHHHHHRHHYYHHHHHQHH HYHHLHHHHYHHYYHNNY\HR HHRYSCNNHHYHHHHHPHY HHHHC*HHHYLYHHHHHHNH HHHYHHHHHHYHYHYH/HHH HH\HHHHYHHYCHDHNHYHY HHHHYH/AHFHHHHYHHYHY HHHHRHHHHHLHHHYCHRP HHYHYLSCESTHTLFPQNAISSFD CKYLDGQDDEDFVVYKLCTLY
8404	38772	A	8461	102	420	DTGPGEGAAGGCGG\GVGEGV AAPAAPGHS*VG/GNQPYLSPV CSRGSPGTGRAAARGLSGCWP WWSRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8406	38774	A	8463	44	1584	AVLDRGPRVGS SSPSPGGMSTC LSSPLFATAAELGGGLCSAGRD GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGH\SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSFEGGGGLSFRRMPGSL \GPSVPCCKGHPGPRCPHHAV EGTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEGAAVAA AVVGVGEGAELPAAPGHS*VG VISHICHPFVAGGSPGTGRAAA RGLSGCW PWWSPRSGSAPSQC SSASWSAWSAGAPRSAPSAPGH PEGRRCPA*GWN PQGSKSSLKS SELWTPIPYVPYAVP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DP\GGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*ACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSPGAPCW PFPFRASPDRTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGDLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGEL EKEALKKITEDQQESLNKWK KGC RFKGKRKGSKAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPNKRGRETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSKSKA ELMEISEDKTKIRSPSKPLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRAK QEQAQKLEEDAEMKSLEEKI GCLLKFSGLDDQTCREDLHIL FSNHGEIKWIDFVRGAKEGILF KEKAKEALGKAKDANNGLQ LARNKEV\TWEVLEGEVEKEAL KKIIEDQQES\LNKWKSKGRRF KGKGKGNKSCSPGSGKGKVQ FQGKKTGFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTTMRYHLTP ARMAIHKSRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLAVDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETTMRYHLIPA RMAIHKK\SRCWQGCGEQETLL HSWKPP/LWRSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIHKSK\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQIRANR*QTEWEKT FIICTSDKGLTSRIYNKLKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCTSLMIREMQI KTTVRYHLTSARMAIIKKSK\NS RCWHGCGEHGTLHCWK/SKS LYEKDTCTRMFIAAQLAIKWTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCLSLLSS WDYRRLPPRPANFLYF**RRGF TMLARMVISIS*PRDPLASASQS AGIQKNSFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPRPANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCLSLP CSWDYRRVPPCPANFCIFSRDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIHELCLLPFTTEL*CNF FFFFFLRRSL/DSVAQAGVQWRY LGSLQAPPPGFTPFSCLSLLSSW GYRRLPPCPA/NFFVFLVIERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPRLQCSGMI LAYCNLRLLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKLLGMWVIAINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*YTYRMK KAKNFFFFFLRELASVAQAG VQWRDLG\SLQSPPPGFTPFSC\P ASLRSDYR/RVLPPCLANFFL YFFS/MRRGFTVFSR\MVISIS*PR DQ\PASASQ\SAGITGVSHRAR\L KIIFFFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPANF\CVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRRASFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCCIISQHPQSASIR GPCVYTVADVPTGIAVIPPA VCFSRLKDCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGDLCDDVSRDWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLSPN LMACQEIPTEERPHPYDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNP\TLFSVKQSHT GEA\SFMCDGCKTFSQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHQSHSSERPVMCN ECGKAFSQNSLKKHQKVHMS EKPYECNECGKAFA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHRTHTGKPFECG*CG KAFSQSAHLRKHQRVHTGKPY YECNDCGKPFSSVSNLIKHHRV HTGKPY* KSSACGKAFSQSSSLI QHRRIHTG\EKPHVCNVCCK\AF SY*LQCSESTRFIHTGRGRPYRC SVCGKAFSHSSALIQHQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGKPYECTECGKTFSQS STLIQHQRINHGAEP/YKCNQC GKAFA\QSSKFSIHPQKVHIGEK\ PSPCVECCKGFSQSSHFFQH\RY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFSQSN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIILLLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLTWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTAFNVTMGYKYPPLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISSLSPLRQMKGGVI GDTPNFQYKPVGKPCPNFEGP SKILIWEDCVNSHVVLKND YGLVIGWAPKGYFK\NNCSSGG RECLEATYFISHWEDKDHHPTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLAIAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFPLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKKDFAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTGIARVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTVA AAAVAATASIM APPPGMRPPMGPPIGLPARGTP IGMPPGMRPPPGIRDCCGSLT PLGDVCLKGSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8427	38795	A	8484	49	752	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLGPRLWSS* RGT\NII LASVPKLLLM/DCYA LARDRTATLG\TFDAISK TASN WIPDLWKETVFTKFPYQEFTDH L/VKTHTRVSKQKTQVPAVATT AARQTM EGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CSPSAVVPSAPSSCPPQPR\RTPK PEPEPEQVIKNYTEELKVPPDED CI\SM EKLSTASGYSDVTD SKAI GSLAVGH LTKCSHAFHLLC LLA MYCNGNKD GSLQCP SCKTIYG EKTGTQPQ GKMEVLR FQMSLP GHEDCGTILIVYSIPP\GIQGP\EH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*RWAWK\RRLI FTVGHVPAPTGETDTVVWNEI\ HHKTEM DRNITGHGYDPDNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIIILSKLSQEQT KHRMFS LID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGPKVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSIAECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYS AIYSLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKV DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYISKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRIKKLTQNHSTTEKLNNL LLNDYWVHNEMKAEIKMFSET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYWRYKEELVPFLCLKFQSIE KEGILPNSCYEASHILPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNICKSINVQHINRTKD KNHMIISIDAEKAFDKIQPFML KTLNKL AQNLLKLISN/SQQSLR IQNQCTKITSILIHQ*QTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQGNKRGYKQ MEEHSMLMGRKNQYLENGHT AQGNL*/I/QMPSPSSY**LSSQN WKKLL*SSYGTKKIGPHSQVNP KPKEQSWRHHTT*LQTLQGYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTLYKN*FKMD*RLT H*S*NHKNPRRKPRQYHSVHRH GQGLHV*NTKSNGNKSQN*RM GSN*TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLQ

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTA MNISVPQVQLINPENQIVEASSN LWELSAETTTFFAISLLPFLNISNS MPDGTNLNLSDEGEEPSPEALV RYLSMRRTVGVADPRTEVME DLQKLLPGFPGVNPQAPFLQVA PNVNFMHNLLPMQNLOPTGQL EYKMSGLPLSPRLPLISWSVLPT LFLA\EQSLLQPPTLQLLNGMGP LGRRASDGGANIQLHAQQLLK/ RPRGPSPLVTMTPAVPAVTPVD EESDGEPDQEA VQRYLANRSK RHTLAMTNPTAEIPDLQRQLG QQPFRSRV WPPHLVPDQHRSTY KDSNTLHLPTEFSPVRRFSDG AASIQAFAHLEKMGNNSSIKQ LQCECEQLQKMYGGQIDERTL EKTQQQHMLYQQEQHHQILQQ QIQQPAQSQQVTIQVQEPVDM SNMPGTAAGSSGRGISISPSAGQ MQMQHRTNLMATLSYGHRPLS KQLSADSAEAHRLKWETREKG LEDDSSVSSNTGGDVTNEGKST ESADFGFSNLFTPGQLLKTWCG SPPYAAPELFEGKEYDGPVKDI WSLGVVLYVLVCGALPFDGST LQNLRARVLSGKFRIPFFMSTG YFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDEL EEGFRRSNYSELREEIQTKGKE VENYEKSLEECITRITNTENCLK ELMEPKTKARELRKECRSLRSR CYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNKGQKK AGVAILVSDKTDFKPTKIKRDK EGHYMMVKGSIQQEELTILNIY APNTGAPRFKQVLSDLQRDL SHTLIMGDFNTPLSTLDRSTRQ KVNNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKFLQPTHLTGK*YP ESMMNSNKFTTRKKQTTPSKSG RRT*TDTSQKKTFMQPKNT*KN AHHHWPSEKCKSKPL*DTISHQ LEWQSLKSQETT GAGEDVDK



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8440	38808	A	8497	1614	3085	AGEENKADKQLQQSLRIQNQC TKITSILIHQQQTNRPNHSTPI HNCFKENKIPRNPTYKGCEGPL QGELQTTAQGNKRGYKQMEE HSMLMGRKNQYHENGHTAQG NLQI/QMPSPSSYQ*LSSQNWKK LLSSSYGTTK\GLHHQVNPCKP EQSWRHAT*LQTILOGYSNQN SMVLVPKQRYRSMEQNRALRN NAAYLQLSDL*QT*EKQAMGK GFPI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RFKR*T* NHKNPRRKPRHYHSGHRHGQG L/LCPKHQKQW/HTKAKIDKWD LIKL/IELLHSCRNYHQSEQATY KMGENFRNLLI*QRANIQNQ* TQTNLQEKKNQPHQKVGEQHE QTLLKRRHLCSQETHEKMLIIT GHQRNANQNHNEIPSHTS*NGN /QLKSQETTGAAGEDVEK*EHFY TVGGTVN*FNHCGSQCGDSSGI *N*KYHLTQPSHYWVYTQRTIN HAAIKTHAHVCLLRHYSQ

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8441	38809	A	8498	2	2013	LNQEEVESLNRPI TGAEIVAIINS LPTKKSPGPDGFTAKFYWRYK EELVPFLKLFQSIEKEGILPNSC YEASIIIPKPGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMISIDAE KAFDKIQQPFMLKTLNKLAQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPNHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEESHMLM GRKNQYLENGHTAQGNL*/I/QM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNPKEQSWRHH TT*LQTIQGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNGFPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQNLQ*TQTNLQEK KQPHQKMGKGHEQTLLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNIPESL GHIQSSV*REI*NTKCPQEKAGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGNRDTKNP SKN**IQTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNGIPIKLPTF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLTPVR TAIIKKS GNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS V WRF LRDLELEIPDPAIPLLG IY PKDY KSCCYKDTCTRMFTAALLTI AK TWNQPKCPTMIDWIKKMWHIY TMESYAAIKNDEFMSFVG TW M KLEIIILSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVEESIP*K WPYCPR*FTDSMPSPSSYQ*LSS QNWKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTSNYSTRL Q*PPGKRGPPVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTAEYTFSTRGGFSKID HMLGCKTNLNKYKEIEIISIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNLNDNI WKLMAKAKMQHITLMECSERK NKIPRNPTYKGREGPLQGELQT TAQGNKRGYKQMEEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RARIKSILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSL FNKWCW ENWLAICRKLKLPFLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRIYNELKQYKKKTNNPIK KWKMDMNRHFSKEDIYAAKK HMKKCSPSLAVREMQIKTTMR YHLPVRMAIHKSGNNRCWR GCGEIGTLLHCWWDCCKLVQPL WKSVMQFLRDLELEIPFPAIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDLSAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRI LLEPLLGPVQLLSHSASVHLD LHQFCSDFSIGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIMKAMRPR*FID SMPSPSSYQ*LSSQNWKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LSLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFPSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRINKLTQSH STTWKLNLLNDYWVHNEM KSEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKD VHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIH*VQ*TCRKGCPLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSI CYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKL\PQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDVL*NQREQRHNIPESLGHIQS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCA YR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGS RQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSGDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPPEHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIGVHISESLSTKSC GALRPVNGVINLQPVLADHIPA GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSCALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLAFPD DVPTSLHFQSMKLSQWQNKPF DKIKPPKLSLKHRAPMPGSLP DSARKDRHKLVSFLTTAKLSH HQTRPDRTHRQHLDDVGAVPM VERVTAPKAERLLNPPPPVHDP NHSKMRLRDHSSERSEVLKHH TDMSSSSYLAATHPPHSPLVR QLSTSSDSPAPASSSSQVTASTS QQPVRRRRGESSFDINNIVPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGSPDEENEESPSPDV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHLASEDTRC STPELGLDEQSVQPWERRTFPL AHSPQAECEDQLDAQERAARC TRRTSGSKTGRETAAPTSPPIV PLKSRHLVAAAATAQRPTH
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFEFLQHAPPSLQP LGSPGHS*GPSSDTGQPAAGR PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSAPGSARPHGSM SASAPSPTASPQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTRAVP
8456	38824	A	8513	1	343	MRMCLRLPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDTT TA*METRWPAEQPALAERRLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTAYPSYGVPHS*GPSLSLPHL/SSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS/SSNCIPPAWEGETPSKKNKINGNPWSKIRDKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKA PWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDTFNYQSCFMQSVFDHFPEILFIHRTYNPRGKV/CIYLPGGWTSGAAGGSSCPSSLCHPC/ARRDT/CRPVPDVPSIQEV*SSMGESLYHPGGSSFPSTAYPS/SWSSPQLRSFSQPSTFVSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS*ATASLQPCPSFTHTGCS TTASGWL TAGEAELRAATTSRASRSPPTSSASSLVPPHLRNKVWLLCSVTC SRLTQTRQTSTRACVPRTIMLPQTPSPKAPNWSSW*NPTSTSPMPSAQGQQPNCASWASLLWSRNPHTSLALAQKR*TYRSWKIPIRCSPSPLPAAAATLTRPSTCPAATS*PCSVPAARCSSPTCCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIMALD/RLLAICSALRYCSIITPGVYS HFYCDAYLLMKIACSIHVNQHVFLGAVVLF/ APCALILVSYIRIAAA/ILRIPSPTRRRKACSIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTFLLPIMALDHYVAICSALQ*CSIITP/ELCQGLPVLA*AGSSLISPVHTVIMSRLAFCSSAQISHFYRDAYLLMKIACSHT*NQHVFLGAVVLFLAPCALILVSYIRIAAAILRIPSPTRRRKACSICSHLSLVTIFYGTVLGICI*PPDSFSAQDAIATIMYTVVTSM LNPFYSLMNKEVQEA VRRLF SRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCPAGWVGEQCQHCGRFR LTGSSGFVTDGPGNYKYKTKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGD SIYAPLVAA FSLIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTGFNITY SFD MCPNNCSGRGECKISNSSD TVECESENWKGEACDIPHCTD NCGFPHRGICNSSDVRCSCFS DWQGP GCSVPVPANQSFV
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTFSLSQEDDRYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASF SAGTQAGEE MPVVS KTNIEYKDSFSNEKFD FRNHPNITFFVYVSNFTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGV LTRLTGSSGFVTDGPG NYKYKTKCTW LIEGQPNRIMR LRFNHFATECSWDHLYVYDGD SIYAPLVAAFSGLIVPERDGNET VPEVVATSGYALLHFFSDAA Y NLTGFNITYSFD MCPNNCSGRG ECKISNSSDTVECESENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSCFSDWQGP GCSVPVPA NQSFV\TREEYSNFKA/LPRASH KAVVNGNIMWVVG GYMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQEACRRELI GGRSTIFTDVQGGWGAPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGA WAPPWAARVSQPG AGPGRGAE AQLLPAASIQWPC HQAPHLLLVLALVTSQGPRCR GFCLAGPCQGGPGGLLILFCHW NVPLQFSSLFFF*DGVSLLLPR LECSGSISGHCNLR L PGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKGFHHVGRAGLKL/MVIH LPRPPRVRLQA



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8466	38834	A	8523	594	2868	CWTSRNRRIPIGSCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGS�TFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPPPVNAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDDNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDC RSELDPLRHQILGGKKAIFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRPYA PYDYL SVMTPSRTLREQIRIYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFRKESQKLQ QSACKRDAELANGALGIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKSYRWEEDQHCG ELQGE*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPLP QLALSGWGRFRVLP
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVLSTFGASG PENS RD C SWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVS VVEIISPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLVD
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGSEGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRITSGSVYITLKKCKQREGS RAMLPGFYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQGQSSDLPPVFNAGGGSG GGSCGGSEGGGSEGGGSEGGG SEGDDGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDDNSPLMNNFR QYLPSPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDTEVFLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDN GWAGGAPISVGKARAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLLHHLRPDLPPAAL PGSAWPGEGALPLPGQVSGRG RSAACLPQGAWPGRGAAPVRR RPRPAAAGSVREAELLESPLA AHRDC*LARKLNSGGYIPQAEY GKHAGLPLPGARALSCGCRAR APVPAALPHLLDHQDPGPAGR IYGTGAGTQTLDGSAPTSRL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRRCA LLALPGAAVSGDLRARNPRGSR PPKAPSGRGGPLLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGPL DCDPVKGSSRKMFLMNAPPV VALQPKWEASVPPGSFRFPECF SEADKGVESMSPTMHKELPAL AACGLVADFDPVGEETADFG PLVLDSDDSVDRDIEEAIQEY L/KGGGSRCKRELAHSS/APTAL CSPKLVPGSGG/GPGSQVGSS KDQGSASPVSMSRADSFQESIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSAKSLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTTT QEKEGSTKPATP/TRPSEAVQN KSGIKRSASTARRGKRVTSAVQ APEASDSSDDGIEEAIQLYQVQ KTRKEADGDPQQRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGPGDLAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTSAELIAVLDFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGSSSVSDSDSIEQEI WTFLALKVQSRLLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPPSVFGSRAERTKP RPSCSSVSDSDSIELEIRKFLVE KAKESGVPGQAQPCWLKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTPTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFPVG EEETADFGPLVLDSDDSVDR DIEEAIQEYL/KGGGSRCCKELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTTTTTQEKEGSTKPATP/TR PSEAVQNKSGIKRNASTARRGK RVTSIAIQAPEASDSSSDGIEEA IQLYQVQKTHKEADGDPQQRV QLQEERAPAPPAHSTSSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLADHSPKIPKETKAPPP TSPASRSKFVEWSSCQADTSAE LIAVLDIFKTILP/APMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIEQEIWTFLLKLVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGG\SKAQPARPRDGRAPLG WDL SIQGTASEAPGGEGAARVP GDTRTSQGQGTDEARHLDDK KSSDKSSSLDSKDLDTAID LLRESQGPAPSPGSLSDNSSSVD SDDSIELEIRKFLVEKAKESGVP GQAQPCLWKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLVPAV PTHWKKLAPACGGPGQSLIDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSFTGHWCVISIPS GYERSRLKVTLP EEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAVLRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHGDGIRDLLP LVLSATICA EFFKGDSKKPSKK RVKRKPYSTTKVTS GSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQGIANEDAAH G\MPARMPPRASPTRSPRASPT RTPPRASPTRTPPRASPRRTPTT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDVPV EEETADFGPLVLDSDDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVT TTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDVPV EEETADFGPLVLDSDDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVT TTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRERLRSTPQRSLRDSGD EDGKIDVLGEEDEDEVEDEEE EASQQFLEQSLQPGLQVARWG GVALPREHIEGGGGPSDPSEFG TEFRAPPRSAASEDARQPAKP PYSYIALITMAILQSPHKRLTSL GICAFISGRFPYYRRKFPAWQN SIRHNLSLND CFVKIPREPGRPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPA/ALPVLQPSLATVK PVGQFCNSSSGIRRRTGNGCAP TKGAVLGGHLSAASAAAASVSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLLNPAGLGQ SKSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLPSTFIAN KRPGRATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRERPRSTPQRSLRDSGD EDGKIDVLGEEDEDEVEDEEE EASQKFLEQSLQPGLQVARWG GVALPREHIEGGGGPSDPSEFG TKFRAPPRSAASEDARQPAKP PYSYIALITMAILQNPHKRLTSL GICAFISGRFPYYRRKFPAWQN SIRHNLSLNE*FVKIPREPGRPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPGTLPVLQPSLGPQPW E/RGQGSVATGR/GCISFSIESI MQGVRGAGTGAAQSLSPTAW SYCPLLQRPSSLRTILQQQQQH QEEDCANGCAPTKGAVLGHL SAASALLRYQPVAKGLWADIA AAPLGEGTSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPPLSSSSIRLSKNILST TGKTVHQTRDDDDQPRDFFKKR NRVNESHQKSSNMNAGPSWKN VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTTEKLIESISPE ARRKRNPLGFRQCQASRNKLFL DFQSMKIIKENADEDSASDLSD/ SGKNSHSSFSPTSRSSQSS*RN RVNESHQKSSNMNAGPSWKNV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTTEKLIESISPEA RRKRNPLGFRQCQASRNKLFLD FQSMKIIKENADEDSASDLSDSE RIPIPPSPLTPPDNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLGPGSSGS*AGRA RTPPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR K\SQDCRMEIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPDGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYMLTGISPFLGNDKQETF LNISQMNLSEEEFDVLSESA VDFIRTLVKKPEDRATAEECL KHPWLTQSSIQEPSFRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKFEPL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGV TIPRS TSDTDLVTSDSRSTLMVSSYY SIGH SQDLVIHWDIKEEVDAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPIFKSIGADETVQGG GSRR LISFSL SDFQAMGLKKGM FFNPD PYLKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPIWQAE QFSFVSLPTDVLEIEVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPPGPAASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAHPCCL
8498	38866	A	8555	72	578	GSKGSVAGARAWVVSLLGCRS RWTAA MELQRRIPPREAAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNRCFQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLNLLTLIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRC\DP S\QTIHCD MG\ITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKL PSSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HAVLSRPMLQLGRNIPCFG RTAY*V*YWGRKWTCGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN



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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSETCHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSKVG*D*RFITTTVA\PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVSTSRSLSVLSK GCFLLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAFS*K LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYSHAH TRMWKPRADDSRH\SRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSTGTSRYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGSR RRRDGRASERRQTQRERGKTL CSSHSPWWLKANASAPAVWSQ AHRTQKPRADDSPGTSRYSTAH TRTRKPRADDSPGT\PDALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT\PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SHAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRH\SRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADDHRRHQIQHRMQKPRADD SPGTRRYSHAHTRTRKPRADDS PGTSRYSTAHTRTRKPRADDS TSRYSTAHTRTQKPRADDSPGT SRYSTAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS \PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYPSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGPSHPHR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEEHGAPELWCHP ACRVGQC VVVFSQAPSGRAPLS PSLNSRSPISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGG SLDSPVQAISPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMDGMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEGKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFH YIAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLPSLNPDG YEKAYEGGSELGGWSLGRWTH DGDINNFPDLNLTLLWEAEDR QNVPRKVPNH YIAIPEWFLSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHTPTPDDH VFRWLAYS ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGIPNAISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRFHCIHPRTCMV GYDMGAHK/CLNFTLSKTNLA RIRRDHWRSFGKAAPSALPSPG G*KLRG\RKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTFRKIEIISGI LSDHSGIKLQINNKG NFGNHTS TWKLNNMLLNDQ*VNEEIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/IPISTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKK WENLEETDKFLDTY NLPRLNNEEVQNL SRPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPFLFGNCRQLLEEVEVAT*PR RFRDSPGGSVQGLWTSRRAAE MLFPVHLVRPRM*ILERFVPHA LDYLLGSRLFKEPLPLKQVNPS RSLDHLQR\AREHFINYLTQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYLLHLQRW\ VDISLEEIESIDQEIKILRERDSSR EASTSN\SSRQERPPVKPFHSHF GTWLHSQSTFGAGYSKGWPTY RTVS\DWYE\QHRKLWSTYPDQ G\AKAAPPEEFRKAAQQQEDQ\ KKRRKRM\RTKQLPQSPGVM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVHTPLPRKTMQSSP PPVSWLQLCTTEGKDAKSCFAF SKVSSDLSVYLYP
8509	38877	A	8566	1	995	GTKELLLT*LGGSPLLLT*TKPL GVDPL\LKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQGSLWSVEGGNKLVCSSL LKLTKANVIHATVTSVTLHSTE GKALYQVAYENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFQPTVVS LVHGYL NSSYFRFPRP*AFPL\SNILTTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNAL WAASSVEVMAVAACKNVAFAW LYNRWYQDLKDIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAKSIKTQALADMEKLVVV RDKNWVARIPQMTSKGHVGV TTTSSAKLKSQ GKDSVAVKRV RSGLMIGFRFMVIPYSGPQVL MEIPKDADKLLCPSCAAVVLG QKKHETQTLSELKLPVQDNVV PKEDPGTWEWRTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGLASCTCCPL TPGKMAGPWTFTLLCGLLAAT LIQATLSPTAVLILGPK\VIKEKL TQELKDHNATSILQQLPLLIAM REKPAAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGQVVGLTGKGD QVV\HNSAASLTMTPLDNIPFSL IVSQDVVKA AVAVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRDIITRY QETFNVIERCPKPVIAAVHGGCI GGGGAAAPMPRPLASSLSVM GQTVSQEAAPPGSQGWFWWS FSIPGLYLLGVDLV TACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFTAR KMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKS VQATTENKEL KTVTFSKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSP LGPVP GGRSGA ASCGLPDCEL*PLKRSAQGRNQ CPV*SSPRSWRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSPPVVT AAPTQARPMIKPQGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPSTDTQNVVFLH PRCPEQASSQRSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNELASSSGVN DPFTGWLEKWFGKWKGITASIL TSLTAVMGVLILVGCCVIPCIG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSGIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLLNLAT/CCFL** RSGGAGGTGQTR*EKGHFHS GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAAK\PL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKNKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKI TRVHQQWIQT KKKSSIYLLKKEFRRLVIKLIREA PEEGKAQCKEVQKLIQKVQGEI IDEIDTINKKQPKLQETMDTLTK MQNAQESLSNRIEQEEHSSKSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVKT KERILRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDLP EKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRWSMA LADKRLNLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELSMEILAKAKADMTIV DNEGKVLEGTGGLTSSPLAHIA VALHIPRRDTQGVLFYCILPTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSLKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCKKYIAQRGCDLKWKNLDHK TPRAVAKEGGFKAASKEIRR/C REN**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKNDFVMVLEESRIM QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKSFVLGSYGP KKKEKGMGKKGKKGFVLP ICVIPEYAFPRRQDGGPPYIMIE TYKNVTDSSRFNRDHPPEHIQ DDSVWYIDDSEKVFSNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQQDIVELLVESGA LIDAASINNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKEKLDN LPKPAENQKLKGKTPPILKTEG PEIKKEEELLSSYGVPTTSEGK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSSPLTAPAGRP*PC GAGPCRR*SR*\P\VGCLRPW ASPGTGAAACGRCCCPPP*P/P*P NPWHFTVSKAFSYMPSTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRSPRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRSAQMS/P/PPKGPP*GSREGPP PP/GPALLPAAAPGGQGHRAPA AGSCGRRAAARRMEWVRNSPP
8537	38905	B	8594	1	2700	



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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFDSLESGIKSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTFDSLESGIKSDQVITAINGI KDKNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASAC\GGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGPPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFHCNWTVQVAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDDEECSEEDS GAEEEEDEDDDEPDDDTLDLG EVELVEPGLGVGGERDGLLCG ETGGGGGSALPGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVECIREVNEVIQNP TITRILLSHFNWDKEKLMEYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMGQTISCPAHGC DILVDDNTVMRLITDSKVCLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFNCGENWHPV\QCKWLK KWIKKDDDDSETSNWIAANTK ECPKCHVTIEKDGGCNHMCVR NQNCKAEFCWVCLGPWEPHG\ SAWDTVPV*NEDDAKAARDAQ ERSRAALQSYLF\YC\NRYMNH MQSLRF\EHRLYAQ\VTQTMEE MQQHNMSWIEVQFLKKAADV LCQCRAATLMYTYVFAFY\LKK NKPSFHIFENNPKARFDENATE GLSG\YLGTRKFPKDSLQDIKQ KVPRPSTRYCESRRKGFVTS HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAAC TGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMPDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKLLFQE AHNGPAVEAQEEEEYGNLD RAYDYVKERRTVTKPNPSFMR QLEEYQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLCDECCSVHRSLSGRHIS IVKHLRHSAWPPTLLQSGFPGP SRRAAPRAARGPTPRTEAAW AAMALTFLVLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLW VLCPGWAFFLVNSSRGGVFNPI LHPCPRHGQARFAGVGRAEDV TFLYHPCAH PWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHOTE LTNQLEYNKRRERELRRKHVM EVRQQPKGLKSKELPNKKSSFQ GYLQNSQTRQYKALRNHLET TPKSEHKAVLKRLKEEQTRKLA ILAEQYDHSINEMLSQAVSLLF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFIPIHHLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSSQQLPVLPSQ CQSLCVHHPAVVVNLHDHGAC VSCLPDLGP*RQSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H*GRSWTPGAPS**TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRMRCPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLSESSPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN K\LSLGT\YASLHGRIYCKPHFNQ LFKS\KG\NYDEFGHRPHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAA MEAKASSQKEKEDKPAETKKL RIAWPPPTELGSSGSALEEGIKM SKPKWPPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSP\LRKGWS MSEQSEESVGGRAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R*GKVHSLEMENEN \FV\ENGARLPIEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHLKK EFTTQNKQSQDVELWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	1	4479	MCFSPPKKLYKHEIHKLDLTCL KPSIESPLRQNRSRSEEEQKQE ENGDSQLILEKIQLPQWSISLNM TDEHGNLVNLVCDIKKPMDEVY KIHLNQTDPPDIDINAMVALDF EYPMTQENYENLWKLIYYSE VPMKLHRELMLSKHPRVSYQY RQDADEEALYYTGVRQAIAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKCAEEHPAVS DPFQRQSLRALSPLSEDLPPSSG LRSGLTKELELLMIHGNEIPSIPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLLHLEGNLL HQLHPSTFSTFTFLDYFRLSTIR HLYLAENMVRTLPASMLRNMP LLENLYLQGNPWTCDCEMRWF LEWDAKSRGHSCRGCASHLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKKD KAYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHLNQTDPPDIDINAMVALD FEYPMQTQENYENLWKLIAYYS EVPMKLHRELMLSKHPRVSYQ YRQDADEEALYYTGVRQA ILA EPEWIMQPSIDIQLNRPQSTAKK VLLSYYNQYSQTIA TKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFSTNYRSLGPAQAPS YG/SRPVSSVASVYAGTGN SGS RISVSCSTSFGRSMESGG LAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVNDDTNV TRLQLETEIKALKEELFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTEL RCTV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQ EYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSLSPDSMSFTTRST FSTNYRSLGSGVQAPSYGARPVS SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPQVRDWSHYFKIIEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\VENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNHVEEVKGLQA QIASSG\LTVEV\DAPKSQDLAK\ IMADIR\AQY*RAGLGKNREEVL DKYW\SQQIEVSTTVVTTQSAE V\GAA\ETTLTELRRTVQS\LEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLHLESELA QT\RAEGQRQA\QEYEALLEHQ GSSLEAEI\ATYRRLLEDGEDFN L\GDALDSSNSMQTIQKTTTTRI VDGKVVSETN\DTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPCLSLPPASR APVRPEPLR*APPPAPRRVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPCLSLPTPWAP/AAAP ASLT\TPPPAPRRVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPCLSLPPPLW AP/AAAEPQRQAPPPAPWCPVPS TTQGLRNASTRRTGRQLHMI WPFASLKSSPATLPCEHCAPT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLGPGTTAEELPSLVA GFGTCSPCLSLPTPWAPVRPE PPR*APPPAPQRPVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPCLSLPPTQRAV RPEPPRRAPPPAPRRVPSTTQG LRSASTRHRTGRQLHLQPQCGV H*VKPAGLLSLALETRTNPAA/ DKHLWQSIISLQLKSDLLKEML GSQTGNGNVQDVLRYLVKSET QKAIVSLDCVRKRYRSSL QLKLCDCWGQALFSSALTDP KEVVVRDLEELSNYKTTLEGSG IFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGTMIFPSIHPSQC RMIGLGWKK*SSVHNATPWAP VPPEPPGRAPPPAPGRPVPLTTQ GLRSASARRRTGRQLHLQPQCG IHWVKPAGLLSHEGPRLRSSQ SDQEPTNSGHSGMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSLPPTPW APVQHKPPRRAPP\TPRHPVPS TTQGLRNASAWRRSGRHLHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDAQEVI DGRRKPEESRTTSHICRCRS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDS DYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPEPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFWKVLPPQGNQQPIWIP SRYLKPYHKPDAKEEIEGSQG FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLPQMAEENLR KAGQPVTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTDQ EAVTDGGRKPEESGTTSHNE*F NDSGDHHCLQQGL
8578	38946	A	8635	820	1344	PDGTTRDAGRGLRSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCPLPRGQGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAPVGQGGQ*SRRA RMLRGLLSKAGHHSFCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	



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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA RHTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKAAKAIHQRRPTCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIIATFE PFPFKFGKAHSVVDYIKACDGIG GPLTEGNQMADCLVANASNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQQCPTCQMVHSSSF TGGVNPGRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNIKHITGIPYNSQGG AIVERMNL\SLKQQLQKQKGGN RDYR/TTP*MLNLALLTLNFLS LPKGQMFSAEQHLQKPAAKT KTEQLIWWRDLITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAEEDPNCHEQHPS NTAIHLRSDQEA\VDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLE\PR TCLRGPAASAAAGAEGRQDPP GGPWCSAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRRAEP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMARNVLYER LLAESPNHVVAEAVIQRPNIHL QTRDYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSVE AGGATAFIYANLSPVVRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGEGSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTLNHRIAAL TGLDVRPPYAEYLQVVNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSSVEAGGATAF IYANLSPVVRVVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSPED
8588	38956	A	8645	298	401	KKSLLVRRSWRMKELKKKIGQ Y*RKLGRLLGKAI
8589	38957	A	8646	1	417	FRAAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQGA VSETQHWE/KEDIVRL AQDQEEMKVNQLQLR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETA VPIARLGCR FSRRCRRRRGRGSLLSFSAAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDITHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPRPPCLLASV AAALAAAAAAAAGGEAAYCL SPRRR*GAVSARPAGEPREPHE WDNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANLSSQSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP\QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHLSGQTDITV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNQLER/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDLC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIDS VDLQSLMTEMNRYRSWCSLLF GYDWVGIPLVYTQVVT LAVYT FFFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSL LAVDEM HMSLPKMK KDIYWDDSAARPPYTLAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKHHGRHSMIRRVKRF LSAHEHPSSPRRRSYRRQTSDDS MFLPRDDL/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCH\GT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCFPARLLKELPFPQGL FPRLTIRASRTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLLHFMFDLGKGR KVSHPALSDGKWH TVKTDYV KRKGFITVDGRES PMVT VVG GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAFTVNRCYAVAQE GTYFDGSGYAALVKEGYKVQS DVNITLEVFTSSQNGVLLGIST AKVDAIGLELVDGKVL FHVNN GAGRITAAYEPKTATVLC DGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVD TN\NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALF\RG PQVQS FDFSRAFE LHGVFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPPSS\PLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPS SSPPPPLPPP PFPPLPLPPSPPLLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNP SLAIKPST TTTLVRTPTTHHSRRPTITTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANTALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLTFQQM WISKQEY\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTP\AMYMAIQAVLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKSYEVPDGGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGG\SI LASLSTFQQM\WISKQE\YDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWKVVHCPSGR/MVP* VRSPQPDDPTTGQRVPGASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTCYQCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWKVVHCPR/ VTKVLWVRSPQPDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTDRPKVQVEYKGETKIF YPPEVSSMVLTKMKEIAEAYLG KTVTNAVVTVPAYFNNSQHQA TKDAGTIAGLNVLRINEPSAAD IAYGLDKKVGAERNVFIFDLRG GTFDVSILIIQDGIFEVKS GDTHL GEEDFDNRIVSHFIAEFKHKYK K DITIRDVKL DKSQIH DIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGAAVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVMTV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPGVYEGECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTTTTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATVKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQAAKKEEFHQQTELEKV CNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSSLLEPGLHPS NHGPRGPAVGIDLGTTYSCVGV FQHGKV\EI\IAN\DQGNRTTPSY VAFTDT\ERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV \QSDMKHW\PFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRSLTLGKTVTNA\ VVTVPV\YFNDS\QRQATKDAG TIAGLNVLRI\INE\PTAAIA\YG LDKKGLEQKRNRAHLLTWGG GTF\DVSI\LTIED\GIFE\VKSTAG DTHLG\GEEDFDNRMVNHFAIE FKRKHKKDISENKRAVRRLRTA CERAKRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNADLFRG TLDPVEKALRDAKLDKSIHQDI VLVGGSTRIPKIQKLLQDFNG KELNKSINPDEAVAYGAAVQA AILSGDKSENVQDLLLLDVTPL SLGIETAGGVMTVLIKRNTTI
8617	38985	A	8674	2	1559	RYLNNWIGTPTKGMSLKAFFVQQ PHKSYWLKTLLPDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYKVV*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLFLK RIECYEVNYQPLDEELDR*EPAP QSQGLDLSPSFDIL*DHIQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHTQMGWLGCPRWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLP\HYLKCSPT AGQMRQCSLDMRPERGRDVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTIQTAEALGVPE QWKALNEIDAVRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSLQL NV\LLICHQASMRCLLAYFLIKS SGITTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKITNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTSEIEAIINSL PTKKSTGPDRFTAIFYQRYKEE LVPFLKLQFSIEKEGILLNSFY ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFPIQGWFNICKSIN VIQHINRTKDKNHTIISDAEKA FDKIQQPFMLKTLNKLGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIQKEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICCSAIFAVLQL PLVIHRQTGYGEDLQQTPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRPI TGSEIEAIHNNVPTKKSPGPDGV TAKFYQRYKEELRTVNKNHMI SIDAEKAFDNIQQPFMLKTLNK LGIDATYDKIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLAIRAIQKEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFSGYKI NVQKSQEFYNNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPIKLLMIFFTELEKVT TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	



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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVN KDIQELNSALHHMDLIDYRTL HPKSTEYTFFSAPQRTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRIKKLTQNHSTWKLN NWLLNDYWVHNEMKAEIKMF FETNEIKDTTYQNLWDTFKATL NQEEVESLNRPTGSEIQAMINS LGTKK/SPGPDGFTAKFY/PÆ*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNQCSKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPTY KGCEGPLQGELOTTAQRNKRK HKQMEEHPMLMDRKNQYHEN GHQAQGNL*IQCHPHQATNDL HRIGKKYSKVHMEPKSLHCQ VNPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMEH NRALRNATYLPPLSDL*ET*QK QEMGKGFPI*QMVLGKLASHM *KAETGSLPYTLYKN*FKMD*R LKC*T*NHKKHPRRKPRQYHSGH RHGQGLHV*NTKSNGNKSQN* QMGSH*TKELLHSCRNYHQSE QATYRMGENFCNLLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRLR SQCDQLEERVSVMEIQTIRE YYKHL YENKLQNL EMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQFQIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGI DETY LKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV LARAI RQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVSGY KINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNSGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTTEEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAFAVHENPLFCshr CWYPGKQEKCLKELMELKAK ARELREECRSLRSRCDQLEERV SVMEDEMNMKREGKFKREKRI KRNEQSLQEIWDYVKRPTLHLI DVPETLNAHKRKQERSKTDLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETEKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITSDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGST AEFYQRYKEELLISNFSKVSQY KINVQKSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELKTKARELREECRSLRSRCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
8639	39007	A	8696	1	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQEEELTILKIYAPNTGAP RFTKQVLSDLQRDL
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKEKELQHW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTKDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSGSLTPDP RAANREAPPSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHLIYANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAIINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDENVHMIISIDAEKAFNKIQPF MLKTLNKLIGIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKD/LFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAICKN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLPM TFFTELEKVTTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDITYTLPR LNQEETESLNRPTGSEIEAIIINV PTKKSPGPDGVTAIFYQRYKEE LRTVNKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGIDATYKHIRA IDDKPTANIILNGQKLEAFPLKT GTRQCPLSPLLFNIVLEVLA AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILLKVIYRFNAIPIKLLMI FFTELEKVTTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICTSPSSKTKEIQTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPTGSEIEAI INNLT/KKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVC R*HDCISRKPHRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNREPHE*TPIHNG FKQNKIPRNPAYKGCERPLQGE L*TTAQ*NKRGYKQMEEHSM MGRKNQYHENGHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNPKEQSW RHHTT*LQTLQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYTKIDHILGSKALLRKCKRT EITNYLSDHSAIKLELRINKLTQ NRSTTWKLNLLNDYWVHN KMAEIKMFFETNENKDDTTYQ NLWDAFKA/EIQTITIKEYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVESLNRPTGAEIVAIIN SLPTKKSPGPDGFTAEFYQRYK EELVPFLLKLFQSIEKQGILPNSF YEASTILIPKPGRTTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFIPGMQGWFIH SINVIQHINRAKDKNHMIISIDA EKAQFDKIQRFMLKTLNKL GIDGTYFKIIRAIYDKPTANI LNGQKLEAIPLKAGTRQGCPL SPLLFNIVLEVLARVIRQEKE IKGIQLGKEEVKLSLFADDM IVYLENPIVTAQNLLKLISN FSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLP KENYKPLLKEIKEDTNKWK NIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMFTFFTE LEKTK\FIWNQKSAHITKG ILSQKNKAGGITLPDFKLY YKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVNNEMKAEIKMFF ETNENKDTTDQNLWDTFKA VC RGKFMALNAHKRKQERSKMG TLTSQKLEKQEQTHSKASRR QEITKIRAELEIET/QKTLQKIN ESR\TEIQTIREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVTGSEIEAIINSLPTKK SPGPYGFTAIFYQRYKEELHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKEDTNKWNIPCSRAGRINI VKMAILPKVIYRFSAIPIKLPM FFTELEKTK\FIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAITLQLRIKKL TQNCTTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDTT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDTLTSQLKELEK QEQTHSKASRRQEITKIRAELEK IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKKREKTQIDAIGN DKGEINTNPTEIQTIREYYKYL YANKVENLEEMDTFLDTYTLP RLNQEEVESLNRPIGSEIEAII SLPTKESPGPDGFTAIFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHHLSSKSHEAVK QLQQSLRIQNQWAKITSMPVH Q*QTNREPNHE*TPIHNCYKEN KIPRNPTYEGCEGPLQGELQTT AQQNKRGQKEMEKSMLMDR KNHYHENGHTAHGNL*IQCHP HQATNDFLHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTLQGYSNQNSMVLVPK QIHRTMEQNRGLRNNTTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNYHQSAQTTYRMGENFCNL PI*QRANIQNLQRT*TNLQEKNK QPHQKVGKGHEQTLLKRRHLC SQQTHEKMLIITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDRAIKLELRI KKLTQNYTTTWKLNLLLSY WVNNEMKAEIKMFFETNENKD TMYQNLWDTFKA VCRGKFIAV NAYKRKQERSKIHTLSQLKEP EKQEQTHSKASRRQEITKIRAE KEIDTQKTLQKISVSRWFSE NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSE AIINSLP/TKKSPGPDEFTAKFY RYKEELQGVIRQEKEREDTQLG KEEVKLLFAEDMIVYLENPIV SAQNLLKLNNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNIKEDTANKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIWNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQGE ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	



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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIASAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKQQRCKIDTLTSQLK ELEKQEQTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLRLARIKKKREMNI DAIKNDKGDITTNPTIEIQTIRE YCKHLYANKLENLEEMDKFLN TYTLPRNLNQEIEIESLNRPIGTSEI EAINSLPTKKSPGPDGFTAIFY QRYKEEMIEKKAFDKSQPPFM LKTLNKLIGDGTFLKIRRAIYDK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAREIRQG KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSaipfkl/pkd/fftel EKTTLKFIWNQKRPRISKTILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLR SRCDQLEERVSADEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTIREYYKHL YANKLENLEEMDTFLDITYLPR LNQEEVESLNRPTGAIEVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCGLLPDELQ TTAQGNKRGYKQTEEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNAAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDYKTVKP KSTEYTFFSGPHRTYSKIDHIVG SKALLSKRKRTEITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAEIKMFFE TNENKDTTYQTLWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKVSRRQEI TKIRAELEIETQKTLQKINESKI QTTIREYYKHL YANKLENLEE MDKFLDITYLPRLNQEEVESLN RPITGSEIEAIINSLPTKKSPGPD GFTAIFYQRYKEE\RPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIPGMQGWFNIRKSINVIQ HVNRTDKNHMIIISDAEKAFFD KIQQPFMLKTLNKLIGDGMYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNLF KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAIFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK\TTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWYD VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLARQANIQI QEIQRTPQRYSSRRATPRHIIVR FTKVEGKNIKGSQRERAIEQTTI REYYKHLYSNKLENLEEMDKF LDYITLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTA FYQRYKEEVVPFLKLQFSIEKE VILPNSFYEARIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKW GIQLTRDVKDLIKENYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAIPIKLPMTFFT ELEKTTFK\FLW\NQKRARIKAS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDTYTLPRLNQEEESLN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLKIF QSIEKEGILPNSFYEASIIIPKPG RDTTKKDNFRPISLMNIAVKILN KILANQIQKHIKKFIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTLKLGIDGMYLKIIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNIPSSWMGRNIM KMAILPK/VTWMKLEIIVLSKLP QEQT KHRMFSLTGVFIEGRAL QNKSETSQRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTSG WKREKKRKRREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGTLH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRIKKLNQNCSTTWKL NNLLLNNYWTNK\KKREKNQI DA/IKNDKGDITTNPTETIQTIRE YYKHL YANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPITGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYISFKSTWKIKNAYSLA HSRELRDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQQIEKQKSP*CKSIKCSP LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKKRSLLWKEPSRSLPSF SITARS*ACCCLCSSSTEPQLLKA QYLLSHSRTRSFRLLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRD DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQAIDLIDYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRIKN LTQNHSTTWKLNNLLNDYWV HNEVKAEIKVFFETKENKDDTY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITNIRAELEKEI ETQKTLQKINESRTEIQTIREY YKHLANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEGI LPNSFYEAHILPKPGRDITKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPGMQGW FNIRKSINVIQHINRAKDKNHMI ISIDA EKAFDKIQPFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLARAIQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSQYKI NVQK\SQAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIK\EDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSA MEDEM NEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLDNRQHSYTSPQSRSHEDPAAVLQALSSSGVVIYQSLVAVQSPLAAPGCDGSRCEVRGLTVGSRYGSWRLAGCRDNEMVNACQSGWCYQNLTVLRGWKVLLEMPHHTYSKIDHILGSKALLSKCKRTEIITNYLSDHSAMKRELRIKNLTQNRSTTWKLNLLLNNDYWVHNEMKAEIKMFFETNE NKDTTYQNLWDIFKAVCRGKFI ALNAHKRKQERSKTDLTLSQL KELEKQEQTTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQEEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNKDTQELNSALHQADLIDINRTLHPKSTEYTFFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNNDYWVHNEMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLKELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKREKNQIDTIKNDKGDITDPTEIQ TTIREYYKHL YANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSI PFENWHKTGMPSLTAP IQHVGSSGQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTSQ GNLQIQCHPHQATNDLHRIGK NYFKVHMEPKKSPHRQVNP KP KEQSWRHHTT*LQTIQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYSDL\*QT*EKQA WGKGIP\IYKM\AL\GKLAS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

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8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YVWHKEMKAEIKMFFETNENK DDTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSOLKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKDDTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSOLKELEKQEQT HSKASRRQIQTIGEYYKHLYT NKLENLEEMDKFLDYYTLPRLN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRFTAIFYQRYKEE L/PDKQLQQLRIQNQWEKITSI PIHQ*QTNREPHE*PIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQRNKRGHKQMEEHSLMLM DRKNQYCENGHTAQEETAFACT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHS GHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYPSTRDYKHL A\NKLEN\LEEMDKFLDYYTL T/ITQEEVESLNRPTG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMISIDAEK AFDKIQPPF\MLKTL\NELGID GT/YFFKIIIRAIYDKPT\ANIRLE WGQKLEAFPFEKLAQEQQMPL LLNPLQSNIVVGKFLA\RAI\RQ EKEIKGIQVEKQEVKLSLFADD MIICLENPIVSAQNL\KLISNVS



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8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTD FKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRIKNLTQ SRSTTWKLNLL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSRQP RFLGLLRSHPALVAVPGDWD DLAVCCIVAPSHVCRMVFMVD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEM RNAESH VVPEDPRFLSESSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERSS\LFQA SLK\LKGRGLRLSKLP\SEEDC GAEESDNTP\LLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIKAK EYLS\DALLDNKGNSSDSWSVD PRES\SPNHVSAQCKCADDLPD LKRHNLI\LED DSHSGKRG\IPH SLSGLDPIIARMSICSEDKKSPS RIASLD*PSSPAENWP\ACQKA YNL\NRTPSTVTLNNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQENLKSMT HKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRRQLASS DPSLSVSQRMPSWRRSSHSWP QMPDPSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFPSVISFHLHCHTWISEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSEFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTKAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLSYEFGRSPFQVTRG DYAPILQKVVEQLEKAKAYAA N\SHQGQML\AQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDL\RQT EGFK\NVFAGGIVLGCGLTPRK REK\LTFLLEDDKDLYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFNFIDQETRDPPQKRG EQIQSWNRTGETWDSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLM VRAGLLALEFYTPAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRLQVLKSTG\ DVTEGRALYEGY\STVTDAPPE\ CFLT\LR\DTVLLRKESRKL SVQP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSEFPEDGPELEEIFTQ \LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTAA\SGPS HSVCVFRGWGGGGAGAWTLV L\PQLEGW*HNPLPICQHVSSLP NCFPSVIL/SFICTA\IRGVSKTGL TILSTKMR\NGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPFLFHIFQMRCCHWSC QGIMRGWGLCSQTLNCLLSK C*TC SRGGGQIWSRK FRLVRVE *G\*GNFKTPELQQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLD CPTRLA ATPRSPGTLAQGSLTDSFPDIRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGPH*KSDCSTHLAAN PRAPGTLAQGSL
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNRKASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLDP/NETNEIPN ANFRQQIRKLIKDGILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYLKLGKGN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTL SQEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEEKKGSY/NA**PWVE EQLTRQPLIHHQPASLH SVY/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
8700	39068	A	8757	1	692	AFLQELCLKSSTGELFPFAAV AAALSMLRLQKRLASSVLCCG KKNIWLDPNETNEITNANSRQQ IRKLIKDGLIIRKP\TVHSRLRC RKNT\LAR\*KGRHMGIGKRKV PANA\RMP\EKVT\WMRENEGF CRR\ASEDTRES\KKIDRPHVVT ALYL\EVKGNVFKNKRIL\MEHI HKLKA\DKARKKL\AD\QAEA RRSKTKEATKRREERLP/ARPRK REII*TLSKEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQTQGLHN CFQPDGARPAAPGPVPGQLGAL PWSCRPPAEPTLFMESLVQWPP GDGIRQ*CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPR SIPGSRG

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8703	39071	A	8760	1	201	MPNIYTM EY YAAVKKDEFMSF VGTWMKLETIILSKLSQGQKTK HRMFSLIGTRMKLETIILSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFAVSVTALKGGASRVVH SSWWVCVLTDFRSEAAYLSVT ALEGGASRV AHSSRFVVS LTSG VKLQTF TVNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAGWGGAIKADSNLI LLFQTIEKYCPWFPDKGSVDLL DWDRVGTTLCQLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDPPGPSFHLYLVGVYYFLT CRSTWEQRKSPVALR**KLGP GSPSPGPVMPPMHRGKSGSTS ALTCS
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGGTAGLVGMGFSTT G\RTPSAPGRPHPCRGA/GSPG KAGLFLQRPLGTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQPGPLETWTGP *SQVPGAPSPCNFSYPHREVPP WGPVPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSAPSPC SPHPPPGLESGPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRSFHCLPSCL*V RPSHPEGDAA\ P*GALHK*RMH EEGRPGPCGGWGLV/GSWEPV QGCRRNLARWGRAWNCLQFPE *PPGGPGLADSGFHQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSTERAMWP FWAPPRSAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIHKRWTPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYVP VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGFDMMN HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRHDMLQIPKQQQYEKYQ DTHDTPYCEPLPGETRLWGD DVIGLFD AETDMNDVVAILENH PLL.GAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSSHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDASYRTF NEFFVRPLRDEVRPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSRPDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVPNLFARNERVICLSDTEF GPMAQILVGATNGGSIETPESE GATVDESFFVGGPVGDFELLCC QERSALSGRCVI*SFNSAKVRFI QQRPRPVKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIHKRWTPWQAIEEDSWQ NLGRVAG*NKLPTCLCNDFW AQTLLSRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKD'TGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHELLPLTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPP\RPNAASQILTSTFHKP PPGSSLACCCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PI\HSPIQGFHSQLLS*RSPTGTEE P*EANKLPPWTGHRPEPHPG PGHPCAAG/MHRPLAPTTA\RPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPCFPGEEADAGSREGPHQEV PRSKICQQPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCNVNWAMRRALK MCIPYRNHGSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVT YKNRVYQGQFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHDPLHRVYRHCS RSGNCPDVFDSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPPVVKHAIVQRQVEVIAV AHIEVQADIFTRSFRATIEANGHK VEQHFDHRHPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLLRPKFNLPPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGFQASKAYSADSIVDYND AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVVDGQAYEALFWTQSDNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRVFVDWTGKERVGT PKKAWPKHVVAPYVDFTLNNH HRRTDSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDIP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMLPLQMAEVPT FEVGDIYIIP\GIKAALDNPGTT FKGYVIHEDAPVTEITLYMESL TAEEREIHKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPVPAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRVLPGTAKRFNVRS GYGFTNRNDAKEDVFVHWT VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRRFR*FIPRPPS VAPPPMVAEIPSAGTGPGSKGE RAEDSGQRPRRWCPFFFYRRR FVRGPRPPNQQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRRPFRPRPRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPYFQRRRQQAPGP QQAPGPRQPAAPPEEAPTEAIKP MIAHDGHAPPNPSPTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCLE EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHGP/ PDAGGARPVPGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLPSA K*FFDALKIKFTLKLHLRRFSC TSLRGLLVSPLLPVRLLLAG WAHAWMHGCGGWEPRITQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPPSSIPGAP*KMLFPSG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPAASSPTGPAG\VPRA R*GPGHGQTS PHGW*PSSMQQ RTRRCSPSSVPGQFLLP/LSCS QVSPWTW*GLPYSLIPVSSLLP WPEDRVPSSFVA/GLPSPFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGSRIFFSQRQRVM AGQRKLC DHPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWSMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGR/QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQQTQNY LKLLLSLVNSDGQTDKSLVAI RTSVGVALAQTSGNALAYGTK KAQEQSQDGLIHTSLKPTEILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEEFSAKLTQ RRKSLPARDGGFTLEDIC*DE RTVAVPPDLVCDCLPGHGEFPR



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8723	39091	A	8781	2	588	HSFFFPNREKCSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPPPS PLAR*VPLGGREFGWPWANAA LRPGKTP/RSDRVSRSPWS/PAG FSVPASWPRRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGPL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQDMSMGVGPSEPGAGYNLVP VÆKRSIRVGVTGFSCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSHRCCKN*VTGY
8727	39095	A	8785	1	325	FSEGN SYLVGIMHPLKAML PGL QYQTETFP PPGYLM/PCRLQQQ SHLLTLRDCCASNQRDSVG VGP SEPGAGYNLVVRRFLSLLEKRSI WVRVTRFSSALNHELKVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRDSVG VGPSEPGAGYNLVV RSFLSPSEKRSVRVG VTRL SRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYNFGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGRTGVLIACYLV FATRMTADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPG SVRQ NSRTPRSPDCGSSPKAQFLVE HETQDSKDLSEAASHALQSEL SAEARRILAAKALANL NESVEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLEKGQHQTILCVLHC IVNLQTIPVDVEEAFLAHAIAF TKISII FVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLQ WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIIHLVPSGLG MVTAFHCSWYLSTTATFPGVL NPALTEIKSGNYYVHGSFILQV ADYKEFQTLLMITKATFHQKTQ CWACEEGVQQSFHPCRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSLKTVHIHVYSS RCTLPCQPSQAAQAEGISQPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGPLKLSHR\PR VCGGTRAPGRQGCMMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTTQPPQ PEGKTSVVADGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE\STC LWPLRSLCPWRLYPIKIMISLPL PSLKLPSPPHPPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPL\A HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASF\SVPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPR\NNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPKEYIDEEGVRYVP VRPRPPITLLRHYRNPWKAAHYH HFQRYSDVRVKEEKAMLQEI ANQKGVSCRAQGWKVHLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLVFVTPKEE EPVRNILEKFNTISGSKVRSLYL HAPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGFEFLPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTP\KEEEPVRNILEKFNTISG SK/CTEVQRGVIYPGHIR*R**SI PRGF*FYSK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGRRVGQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLTLLFFQNLLGGKSSMLWTA HPCPEGACSSSCTSLGSHLLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRMCPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEGGPCWG GSGRTGAHGAEGAGSSLGQP RKGLPQCSGG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCGPFCWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCFCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HSLSVPLPLGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSSSRPNV*SFPFPQY TVTLVKGWRSREPSKSSVLGS/ MVP*STKSEP*REPP*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFAVSVTARNVDPKN SGAQLASPSGSSTRAASGAAC* SPSPPPCARTPQPLGGRIGTGCP GAGGGTRRGGSGRTGAHGAAE GVGSLGQPRKGPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGSLGPGTGAHLPL GPDGQPAETLLWGPPCGPGG TGLTGSGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPDS RCRVETDRPWRLCIQSLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLGSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKLPRDS
8750	39118	A	8808	1	1298	ESLRAGSFQQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVGRS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRRACAEHHLCSADERPDLGFE GLQRWGGCRGSQGKPAVHQA WGRCGEGTGGGHTGSPPRLTP P/PGPGSFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPAPLV*GFIHIVAAFCF VTPVSKSHSFQLGGELRVAGSD AGRWGERENTQGSTLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDF\SGFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGGCQGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPRSPPWALLGDLPSSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTSLKINEKVLQVLTNIF LFHDFSVQNFIFKGLQLSLEHFY SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLEN LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVLQLLRMLAKDEL MTILEKCFKGFSYCENHLGST A*RIEEFLGQFQSLDEPRGR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIIRGRGHVQWG RYVEKQASEKQVALLTSEKCL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFLAQFQSF DETKENEALKREEGCIPNITPDI CIAVKLYLECRRLINLVDYSQA FATILTAAEKMDANSTSSSEEMN EIIYAWCIRTVFELELLGFIKPTK QKTDHVARLT
8753	39121	A	8811	70	613	SLLEMKELRRSKKQTKFEVLRE NVVNFIDCLVREYLLPETQPL HEVVYFSAHALREHLNAPRI ALHTALNNPYYLKNEALKSE EGCIPNIA\PDICIAVKLHLECSR LINLVDWSEAFATVVTAEEKM DANSASSEEMNEIHHARDIRAVS ELELLGFIKPTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLALAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERISRLLLPFADQHVEIPSLT AGNIALTVGLKHTATGDTIVSS KSSAL\QLVEPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRLLDPDSGQTV\LCG MGELHIEIIHDRIKREYGLETYL GPLQVAYRETILNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEIENGIHSACLQGPLLGS IQDVGNLYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALKERKADKQ VLEPLMNLEVTVARDYLSPL ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLRTLTSG SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSL\SRHDDEATRST\SE GLEEGEVE\GETLLIVES\EDQAF S\VDLSHDQSGGISLNSDEGDVS WMEEQLSYFCDKCKQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSLISRHDDEATRST SEGLEEGEVEGETLLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCKQWIPASQ LREQLSYLGDNFFRFTCSDCS ADGKEQYERLKLTHQVVML ALYNLSLKSGRQGYFRWKED ICAFIEKH*TFLLRNRKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKL VHNPLTMKPERE KTAASTLNIFAASKPTLDPIITVE GLRKRASRNPVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPDRMDIDSED TDSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEKLLLRLEACPGAVAMT PEARRLKR\KLIVRQA\KRDRGL PLFDLDQ\VVNAALLLV DGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQTS\PSRKGFRAHQ\T TKFLYRLVGSEDMAVDQSIVSP YTSRILKPYIRSDPHWTPEPDAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVVLY KKVIIAFGFMVP\DV\KYNEAYI SFLFVHPNW\RRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCPPVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTFAFCRLK*KRTCCL SLGSRC
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVA AEAGI\WDN DCVKKQLLSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIHELKRKV CGSDSKGFVVINQKGIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSVTLII KGPKNHLLTQIKDAVRDGLRA VKNAIDGCVVPGCWCRGKW AMAEA\LI*P*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTFFQGNILKFKAEHSRIQVQL VGVDL\NTGEP\MVASRSKAVW GHT*LW*KKTSLPSTPCTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYTS PACPKQSGLCILSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSSENSKVTTKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQAKSSSESINQPELETR MSTRSSKAASNDKATKINKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQSSTQSKSNKTSQK HVKRKVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KVPVPTSEVKRSKMATSVVPK KNEMKKSHTQVNT/KHNTPK KSTAIAS*TK***AGASRKEQTR *YSPA\REEIAGEIESDNVEVKK ESSQMESVKEEKPEIKLEETSV ERQILHQGTNQDVQCNRRFFPS RKTKPVKCILNGINSSAKKNSN WTKIKLSKFNSVQHNKLDQSVS PKLGLFTNQFFTSFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISRALGRYVLPCLIQDGIFVA HTAHAILTSLED\SL*MFQPKTC WCL\AN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKSNAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS



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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSR\ALGVYVLFPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPAENGYDQAL EASKDKDKVKRH\AVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVT
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYL YHVL TKNTTVTEQNRNLLVETIRSITE ILIWGDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNNYV NSIIVHKFDFSDEEIMAYYISFL KTLCLKNNHTVHFFYNEHTN DFALYTEAIKFFNHPEMSVRIA VRTITLVYKVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDEEHRNRGKLSDLVA EHLDDLHYLNDILIINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLP TLSS LWQGSLSLNQLQSGLHKCSS HLCGAQAAADS VTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVA AVHSSCMLGFGS TAPRGSWIGDPAAVHLPLPGEL AEHLGSKGTTTVTKHQPAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPNYKNVGEEDEEEKG PTEDAQEDA EKAKGTEGGSGGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQTNDDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCCLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVFDFLEKNMFVFFLNILRQKS GRYVCVQLLQTLNLFENISHET SLYYLLSNVYVNSIIVHKFDFSD EEIMAYYISFLKTLCLKNNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRIAVRTITLVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFIGSHVIELDDCVQTDEEH RNRGKLSDLVAEHLHLHYLN DILINCEFLNDVLTDLHLNRLF LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAVVS*AHCRSQTGPK*S SL/LVFPSS\WYRHMPPHLAN* KKFFLHRDGGGLDMLPRLVWNS WPQVILPPQPPKALGLLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGAAGVAGQGGRVVR PGRAAAPSPPGGA*CVPTDA GAGPGSAGARQPLFAAGALS HSGHC*RGLRPGSLASPAQAK AAWSGLLLSPAAAGRDGGRGH NPRDPPLREHGPGIPGFHGD G*ELYQCHLGEGG\GPDKPGS PCASCGLDGHWRALLLETFRP QRCAQVLHVDYGRKELVSCSS LRYLLPEYFRMPVVTPCALYG LWDGGRGWSRSQVGDLKTLIL GKAVNAKIEFYCSFEHVYYVSL YGEDGINLNRVFGVQSCCLAD RVLQSQATEEEEPETSQSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYYRAIVTKLDDKSV DVFLVDRGNSENVDWIINMLL RFLTNQEQEETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEGEQK AKRENKTTSVSKALSDTTVVTN GSTELVVQEKVKRASVYFPLM QNCLEIKPGSSSKGELEVGSTVE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYCKNTAAPHQ RNTLACLAKRTVNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGLPPGNTRTIPLNW KLRLPPGHFGLLLTSLQEAENG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPVGPQTHPVVTS PVSECIIGIDILSGWQNPFIGSLT GRVKAIMVAKDKLPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAVPDVVSWEQINTSPGTCL HWWPHGEFRLVDREERTRW FTDGSAQYAGTTQKWTPAALQ PLSRTSLKESECFIHHHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYA\LNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKLRL PPGHFGLLLPLSQAKKGIVL AGVIDLDYQNEISLLHNNGKE EYALNIGDPLGHLLVLPSPVIN VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMML\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTRSSSPLLALV*TWP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKGNDQTFR GLLDTGSELTLPDPKHHYGP PVKVG\AYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTVTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLIPGDPKHHCDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDILRW QNSHTGSLTGRMKAIMVGRKAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMTV DYCMLNQVVSAAVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHN\CTN GLMGSFL*SVDRGREDYGLVH RRFFTIC*HHPKLDSCSTTVPF* DIPEGQL*REIFPPVSWRQGWR LCMGSATWTFTHQG*PGYGHC *VPNLPAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERAEV CPHWNRHLF*IWVCLSCSLCF C*DYHPWTLEMPYPPSPYSTKL CCCPRHLLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSVAADRDTVWSL WQVPIGESQQRSLGFWSKVLPI SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKVGHVHQHSIIKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDGLKGQRFV LTGVDITYSGYWFAYPAHNASA KTSIYGFTCLIHCHGIPHSIASD QGTLFTAKEVWQWAHAHGIH WSYHIPHHPIAAGLIEWWNGLL KSQQLCQLGDNTLQGWGKDL QKAMYSLNQRLIYSTVSPISRIH GSRNQREVEVAPLTITLSDPL AKFFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGS NILVMPNMEAAARISYNLLRVSS SEGVTVGPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQTQ PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDLNAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTIRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIPSQAP WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGIDSS DLPLNVSREILQDSTVTRNLN ALTNRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLLS RIDEWMMNYLTEFDGKPFQPG AKVDESLEKLADEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*MTP RMA\KCFGAGQKVPEVKYIFE LNPDHVLVKRA\ADT\EEEEAKF CVWGNKCVLGGPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVVFCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLS\GGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLLSK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVVEKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHGFDILVGQIDDALK LANEDVFTRTLGADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHCFGWLTGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVDRISEITIGIPML TGYILLHVKGVRKSSADHRR RPLASLATPPHKSWTCTLLFFR LPNVVCYANRIQQLTPILETLPQ SDELPHCEETVVLENWRQVHE QCLALHSQQQTLQQQDVLAQA SLQKAQAQFDALQASVFDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAETLA QHQQHRPDDGLALTVTVEQIQ QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQQLMQQIAQ MTQQVEDWGYLNSLIGSKEGD KFRKFAQGLTLDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVRD/TRTLSGGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDAYGVRFQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPCMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESSLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFVNLDMRYEWKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVLVFRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKITRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFLLP VAFFDRPPARLYRMHTWSHME SQEPARLPSHYAD*GQGSQKR\ DSCSSGWAGLLFISPFVLWSA EIEGSLNHITLGFRLSHGTTSD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNWGR HLTLHPRNSKHLEQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAEAQGRAETA GCLRRGRGALALPGSPGLSP WVEDAGGHRVLHGRAVLRA RAPPVPQAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR\KSRPAAPCPPPSAMFLTPR SSATLLSSSSKGASGGWEPSAA PLGGSGQPFREMVSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTS LGVLVALPVRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDWSRTLIQPPRPPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSPATGKSRPAA PCPPPSAMFLTPRYSATLLSSS SKAASGAREPSAAPLGGSGQPF REMVSQH
8835	39203	C	8894	321	539	



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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFRGR QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGGS GRGLPGRLSVQQPRRVRRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFQPEQQPVQIPSQEQIDAMK AKTGLQHLLTVINQSHQQYLQK DLPDLVVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGAALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHGISTSGVSSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMVAAVFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFGALLSLILSEILVL RLSSAVAEVAQVFGTKFDINGL SFDECLLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTGFYRDRENSGGRYESRRS LTRQFREEPTAPIPRECSQRIDFL LFETPSVSASSSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLGSASAFCLGPGIPQAR PNNSAVNSKNSRFGIPRPAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNNPAFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEHRLDNLGIQFLRLH RFKILI*RQINHHIALCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHRRQGPLVCIVIF YFCAKRWMAAIL* TQHRHRFL TTDDGKFAVANGSFS* RGLHH/ ATGLLRFPIC* GPLVCIVIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHAAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRHHQGS YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ* DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYALAGKRLFCSWVCPLNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVILVGSALTGTLIWEW INPVSLMGRSLVMGFGSGALLI LALFLFDLLVVEHGWCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSDEVFPITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYYRKSDPPR/Q WLRHSPVR* VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCLGARD TLRLDGDESYG/QEM/DET VSP* AMKLRCMPKKRPISGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPSRFSEPSG AIEVPPDKVHELRLRLAQQGLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTVNLLPGRALDEGQISAI VHLVSSAVAGLPNGNVTLDQ GGHLLTQSNSTGRDLNDAQLK YASDVEGRIQRRIEAILSPIVGN G\TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDAQLKYASDVE\GRIHRRIEAF LSPIVGSGNIPAQVRAQLDFASK DQPEEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNYE VDRITIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANNFNPGVD EDDTEKLLEVPEELTNEKLDL EQKCIHIYDDKRKQTKQTPQDV FLKRVTSQPQPQPGSGIPEEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEAIGKRGV DQFFRQSQYRLVGVTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFLLIPQARTFAT YRYKGCERSVNRYHPFIKVFTRN WREADLSLKRV*TLNDTGYQ EVITYSFVDPKVQMIHPGVEA LLLSPISVEMSAMRLSLWTGL LATVVYNQNRQNRVRIFESGL RFV PDTQAPLGIRQDLMLAGVI CGNRYEEHWNLAKETVDFYDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLKGERIGF VGVVHPELERKLDLNGRTL VFE LEWNKLADRVVPQAREISRFP NRRDIAVVVAENVPAADILSEC KKVGVNQVVG\VNLFDMYRGK GVAEGYKSLAISLILQDTSRTL EEEEIA\ATVAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS\WDEIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFEKTLITPDSFDDKW LRGDENALTAQQKKGYQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFHSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRGK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWILFVHQ MEGGWRPTVRPPRLGGNARM GVFATRSTFRPNPIGMSLVELK EYVCHKDSVILKLGSLDLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSFGGL HPIRTSQFCLPVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWPVLRMYL RGNTVSDAPLIIGSLDPCYSCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSPLNRSLYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKM AYRSALVTPWRVFRRNPVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRVMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACACPANALTIQTD DQQNSRTWQLYLGRCIYCPSS TNNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKT VKKRYVTALVIVIA G LMTLWRIRNAPVPTYQTLIV RPGDLQHSVLAPGKLARTSKNFA Q\FIRVRYSAFSLAGEKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEIL\LA\PNMEQRT QGIGILDPQIARDLRFDPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDLAMEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRVMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPNRRCTGEGWTRAWITL PLLIKPLTPLMIASFANFNFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFSGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATTATVLAQAI TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQKGISR EATEKAMRECDIDWCALARDQ ATRKYGEP LPTVFSEKSRKLIA GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTFRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPRLNIEVAVGAVIF AREHTAELKLRQFFQGAPQKA VISIPVVPQVTGVVIEVTDKKN T LIKKGEVLFRLDPTRYQARVDR LMADIVTAEHKQRALGAELDE MAANTQAKATRDKFAKEYQ RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKQIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGPMPQTRE HILLGRQVGVPYIIVFLNKC DM VDDEELLELVEMEVRELLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLPGLYSGTR ACD*QAVPAADRRR/SSPSPVV VPLLPVV*NAVSSKLVKKLK\R WYPRDSEVYLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPDCWRSGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRRTGFIKGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQPPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLELHQAQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRSQQLRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDACLSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN\ GHPGAKVANLVPKTTFIDGVD QTSFFLGTTNGQSNRKAHEYFLN GKLAAVRMDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYTDPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETRQP*PQR LWTCAYSPTGESERYFPRSDRK SDA*M*HRLVRTGARSDDAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKRNR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT*RAGAWLAQCGLTV EQLAR\QVD\PDMTTRAHLHYC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYNNRHRYYDP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWDGDRLTTIQND RSRIQTIYQPGSFTPLIRVETATG ELAKTQRRSLADALQSGGED GGSVVFPVVLVQMLDRLESEIL ADRKRAATTWSHNHYANKKE GIKATGYRLAQTGLGFKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFLNGLRFLRFRITIC CLRLVVVQPQHFAGVLQLAFC CRYITVQLASIRNRDRFQRSPL RAGNTIAKYFFQIQHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNLDGQFGAL AAWLAIWLKTQYGAPLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDEGLRIYSSERPTNS/VVRIL KPLLNCILNRA/DVLERITAWD KPDCH\TLHHHADLSGHFPEEIG PLLFAGFSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFNPASGKSS/RAIPEG YVTTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHL HAGRSG



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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPVHPVCAVSRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVPLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMQRNMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYNNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISIDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQG*ARVSSS ANTATALSSRLPGQNSVTVP A*RMNCVLRVTPLASKNRGGKP APSGTEGKGLPEVQPGQLRAH GLPVSENLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSPFGPACGLAP SSAGVLPGRFVPAVWLDSEDPE EYVGSSDFLTKMQSMKKVDLK KNRAATDADGQFSPRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPFS ERDIDDARQNFLAQDALAQIQS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNQYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGKLAAISPAV PGGAYQSTGTLQTLNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRDARARRKNEEPAAR PRTTNTRNGSRKGPERK/WADG RGHKAEAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGRERRGRKR
8893	39261	A	8952	843	1061	NRPPPVCACHRQVVLPVPVNR APA EKWQVPRVTLPGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRIPGCEDKLGADQQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQQL ETPLPLDDEPQPAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAANSQSFGRLTIVH SDCALLERDGNISLLSLPITGIW CSD*H**PMIPRLLIPASVRSSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQA WEMNRGLQL LSDALGEQYAQHGNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPVLGETGAQRKRISA RKGLTTSCPQGALSEHCPTTP APLPSQRRNHW MENISPFERSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLCTQ GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLSSAWVQVGPPRYCRQT NALSNLPNPNLKGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHAIIRPACE*QLGA DQQPAFVLYLEIDPHQVDVNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQLETPPLDDEPQPA PRSIPENRVAAGRNFHAEPAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPPEPQEPALAANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAAEKSALE KAQSALAE LGMVNSTRFSLHE HPDAERSPGQSGEQRQQPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVFMYTWLSMA LIIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLSLALKIIRSPAFLPDTASEC AMAI DCYILAAS TQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLFDSSLFS SLLVLLVVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRIDLAMQAL FWFHMNFKVVFSNSVKKVIGS LMGTALNL*ITLGSMIAFTILILP YP*AWNVLFPVCVLFYFLEQW FVVLLLEVLHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEHGMMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGHISEGSILFHCSITLFWYQS HAVLVTVAL*YFLKSGGLMPP ALFFWLRIDLGLMLALLWFHMN LKVVFSNSLNKVGSLMVMAL NL*ITLGSMIAFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFVVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLLICIRRFWAETMGF SRDTIMSSANRDNLTSFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHFLHLFDSSLFS SLLVLLVVY/PILLIFS KIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVG NIMSNIPI VGALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVFEQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEAESGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLGHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQVRGGVAQHCEPR*TPPPA CRVRLPGCPVDPASPGRGRTS AGTPEPALRHPHTPRGPVAART LPAEPGPAPPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGA\GGLPHPEGGRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRLQVGAHSC*G RGHVSWPPPWPWGPPCCPLCL LNLPLNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCPANFFFLVELEFHHV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVMTTPG KLRTLCEIDWPTLEVGWPSGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDL QTIIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPENQRMI NMALVSQSAEDIRRLKQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTQTWTW LPQGFKNSTIFGEALARDLQK FPTRDLGCVLLQYVDDLLGHF TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGVRLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRLQQAFAFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCPL L/QGVLT YQRRQAAPPLRRER LASSRDKPKCAGKHTSSLVRA GDMQGTIVTGTEVLRDLMEPK FEDDQLRPVLEHKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVMTMPGKWRT YFEIDWSKLEVGPSEGNLERS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQ\PRKDPTPPAEGNQ LLK/SLFDPTSEDPLQEME/PSDP SGALPLPGKDAPH S*AHSPCAS TRQ TYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIKAPHAVVTLMTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATLLLVSESPVKHNC LEVLD SVYSSRPNLRDHP*TSV DWELYVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMSLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTSPCTEKPQALIDLL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCCASW QRLASANFRVLVDCILSDTFED LRLQCDVNLAFGRRC EELED ARYKLHHHLHKAVE*GGGAEH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGHRQLEVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAAETDLLLAQKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEA EPIRNIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LASSANLWVLVDCILRDTSEDL GLQCDVNLAFGRRC EELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKDKKEPLHIAQTRL YLP SHRPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDIHMSLEKDV TAMTNSVFIDRQKCMahrTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFVSL RSLLSLLPSAPLRHHPPSA*LSL CSCVSD*AVALIPQSAHHFPNIS *PFPLHCFAHAKPPVWIFHSH/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLF TFTPFLAFCGEPT ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LTTA/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSE*GLSMLP*LVNSWPQVI LLGPPKALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGPSHP *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLRTENTQAQR AGVPLGVRILSRPGFP*LSTHSC FSCPLV*PPSQGQGPLSLWTL SAIQAPAELESCRSSCDRDRSH WPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAGMNSAGL SFGGGAGKYLAEWMVHGYPSE NVWELDLKRFGALQSSRTFLR HRVMEVMPLMYDLKVPRWAF KTVSQLRTSLLYDRLDAQEAR WMEKHGFERPKYFVPPDKDLA ALEQSKTFYKPDWFDIV\ESEV KCKK\EAVCVIDMSSF\TKFEITS TGD\QALEVLQYLF\NDLDVPV GHIV\HTGMLNEGGGYENDCSI ARLNKRSFFMISPTDQQVH\CW AWLKKH\MPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPICIAHTYLHLRS FSQADGREWRKVLDKHKIFLF ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	



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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHIALV PKLTT*LERIKYLGQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTELEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWGKDSL FN KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDK WDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVGS SGRAIRQEK EIKGIQLGREEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS R YKINVQKSQAFLYTNNRQTESQ IMSELPFTIA\KRIKYLGIQLTRD VKDLFKENYKPLL NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQFILKFFKHFTELADSAIN AHLQTVSGRQQLVKLVAEQAD LEQTFNPSDPECVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTAVEGLDIQLEVLKL LVEMSSFCGDMEKLETNLGKL FDKLLEYMPLPPEEAENGGNA GDEEPLKQFSYVECLLYSFHQL GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLOVYIRQLHLALQ VKQCFAYMEKENGIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLGDGTIFYKIIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNGCCVCMCV CVC\CVCVRVWVVCVVCVCVC VCVCVC\CVCVC\CVCICVCI*V WVCVCVCLCLSLPKWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEKGFCHALPDHRLR VLHQHPPHACVETDVTDLGITS ISLADVRVCVCMCVVCVCVCV RVWIWVCVVCVCVCVCVCVC VCVC\CVCICVCI*VWVCVCVC CVCVCVCIC\CVCVCVCVCVC CICVCI*VCVCVYVCVCVCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVCVCVCVCVRVWIWVCVC VCVCVCVCVCVCVCVCVCIC VCI*VWVCVCVCVCVCVCVCIC\ CVCVCVCVCVCVCVCVCVCIC VYVCVCVCCLCLFYLVLCFCICS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGA FVEISRQL/ PPN/GDPNFKLFIIRG\SPE\QIDH AKQLIEEKIEVGWGGGLWGFG L TARIPAHLPWLLSFLLG\PLCTV G\PGPGGGPGAGPMGPFNPGPF NQGPPGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIQAHF CGYHQQALSCL/PGR ACAFQHPSVHVQVSRLLSCPQA DAARPSSCFLSRPFGAPLSLVV WVSGASPLKNIPTPGGPAA\PPP HHCSSIPFFSPA VPGGPLLTSTH PRAGAIPTPSGS/QPAPHDPSK* WALQPGATRGSP TVSILCLLGF EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDYSHYYQQP PG\PVPCPAPAPAAPPAQGEPPQ PPPTGQSDYTEWAW E EYK KI GQQPQQPGAPPQ QDYTKAWE\ EYK KIQAQVA\TGGG\PGAPP G SQPDYS\AAWAEY YRQQAAYY GQTPGP\GGPQPPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARPDR LPGFIILLLLLSRVVPQGPP\GG PGMPPGGRRPKKEEGQGN\WGSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQ\QRGAFVEICRQLPP N\GTANFKLFI\RGSP\QQIDHA KQLNE\EKMKGPLCPVGP GPGG PGP\AGPMGPFNPG\PF\NQGPPG APPHAKK\PPPHQYPPQGCNT YPQWQQHAPHDPSISAGKAAA AAADPNAAW\AAYYSHYYQQP PGPVP/GPAPAPAAPPAQQQQP Q/QPGAPPQQDYTKAWE EY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQQAAYYGQ/T PGPGGPQPPPTQQGQQQQWVA PETPSPRGVPLMPAAGAVWPE VPGVPTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSLRALSPFAESSQLKGQ TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAPEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTDDLKRFVRYLRPARS LVFPWFSPGGSGRLGLKLEAK CQGDGVSYEETTIPRPSAYHNL FGLPLISRRDAEVVLTSLREDSL ALNQTGLPTLTLPRGTTCLPPA LLPYLEQFRRIVFWLGDDLRSW EAAKLFARKLNP KRCFLVRPGD QQPRPLEALNGGFNLSRILRTA LP AWHKSIVSFRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLC SQGVNTLWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADRFEDLPLYFMTFHG QQ\NIRTVIGTM\NHAVVYVDIC HVIIDNLQFMMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVT LVIHPRKEDDDKELQTASIFGSA KGGEWSAPHSTSSRPSAQP KSD STVAEAAPLASDFTAYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPLYFMT FHGQQSIRTVIDTMQHA\VYG\Y DICHVIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQARIEADNVLDPAGTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTFSIPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTPDQPD TSKRSK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRTIFKALTEV CKNFSALHCEFSWGFFFCSSFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTFLCFVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNR PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVLNQLCFHFAIFD LENNSPRARAGGRHVLVLPN NSITLDGSRSKKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSLSPDPRKSGLVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVLSHCLLHSTV IVFYVQSRPPFKVLKAAEVARN LHIS*\SRDSLFCMLPSALHTS/S AGCLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQKRTKIRKKTNLNMY*VH LKYFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVPPQMLLCFSLG IKHRSTEHNSSLMVSESVRSFD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQ SARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN*ADTMDEQYCKVC QAYKAPRSHHCTKCNTCVMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIHA AFIVMTMYT QLYSFGMENNFRKQNFYLS WDWKEEGLKDPDFSIIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHS AFGCPYSDMN LKKEATLHDRLREQTQANLES DSSHKS KSLCSLNFNGKHEKV NSQRLVQQA CKLIK GKEDID LDNLFREYSVEQAQQVLHQSV SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLLGCEEHAKCFKKEQI DGKAFLLLTQT DIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEV RG
8993	39361	A	9052	30	981	TQDPWPSLPVLWSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFIKKHSHLPTY CLFKEDVKFPFRTCLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVSMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTQTPHLDESIS KGESPALVVTELRCMTATEP LVPTKNPYQERGHIGDSFLHYT DQEPQPWDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDA TVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPQCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGPLRTL\HWTQ S*TYLNILALET*GAQNQP*EW QAVD*GAPGLFSHTLGVFPR/RL PQHPKQIICFQNYEYSVEQAQQ VLHQSVSMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGNDE RTVIVKAITEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ HDQLHRYLFENFAVRGELVTV SETLQQILENHDYPQPVKNVLA ELLVATSLLTATLKFDGDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCVNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPKTT VRRGGEHNLKNPDECEDNPNIC DGGQCAGIPGRNRCLCYDGM ASEDMKTCVDIDECSLPNICVF GTCHNLPGLFRCECEIGYELDR SGGNCTEDPDHSKSRSGRSQND WGRRRKT/S*KRSAVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHG NRKRMRRRRIFI/STKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTIDGINSND IYMLGYVSNLSLTGPYRPVDKTG LGLEMGLDPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRRDENART TTRHKKRRNRRVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RRTKAK*T*RDHENDGTRA YNKTPKKAARKRTRNNLRIHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QQRL*KGHTHTER*RQARMHT RHAQNLDTQHSTRLCNA*ST/C HDDRSSSTMCHRYDQLYSRSH ALTMIIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDTCTEKAFPAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRRAHKYNNGKSDTQNGS HHRQKLRQYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLESDDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNRRRSKGPFIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCCKNSIC\IGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF



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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVCALAFPFCS VVVLCVPVGCR\CTLFAV/CCCL/ CVCALFCGFLLRFLFCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAVVVLVCC\LLVVL MMSL/CGCRVYSWYGVCWVCS VVCRVIDL/CPCCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLA V/M/CWCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGGCFLGSL
9001	39369	A	9060	1606	1849	QGVASLCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRVCGVLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKSRGFAFITERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSGPPRVL RGGRGSGGTREPPSRGGHMD D/SGRDSYRGPPRRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGSRDSYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTTPRGGGRGGS RSDRGGGRSRY
9003	39371	A	9062	90	443	NVYYIQFIVLPYYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVSASASPSIRSASSRASTWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNGQNHLEGQ MNFNADSSQHKDENTDIAEK\L EEKVRILCWVMTGPQNLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRWLLSKYDP EPIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSIEDLALGRCMEIMNVE AGDSRDTIGKGNFFHPFV\PE\H HFNLKGYLPRTFWYWNYNYP PVEGGELRFLFSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTKGNFSDPTQAILYTQADK IEGWMRASGERVAEQSGQTA MDGGKKEAEWKRTKAKYRD DVCSKHHPYPPTVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGGVVVGHALHNDQALK\*S TLGARPGDTTYVPNFLSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSVEDATTAMELYRLVE VQWEQQEARSLWTCPEDREPD SSTDMEQYMEDQYWPDDL AH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPPRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCPHAAGQGPGK QTSSGTGASSSPWTSCL*KSLPK VCS*GLETTIGRGRVKPIKVD TAQ*CAASVTAPILSS*LQDGG STAKVTRCT/TAGGRAVYGTA GKAFPEAPELTCRS/ALAALGT WPLPPLQVSCGLRNPSPDLPSV VGSRASV*TKSGSSPAKVWPLA EWFKSGSA\PVTGQEA WLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSA PGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLALPTASYEQ*PQPHW GSWTAHGQNLGIFQRVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTPAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSPRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQH LAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPRPD* LCPHIHCAAV*GEIRTVP/SKTV RGVATRTRPRSASSLGTITGLR VSSVRRVQLSIKPGCSRVENESS NSPCSSSQPGTSVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAAATEKAQEQCMLREKL GTRQKAESGSRGA\AGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSARVSSPS GSCSASPPAAPA\PGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCRPAPRPPTP ASRSGRP\VPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPAGARKG RTLWQ*SWRSAPPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRRSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDITWTNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAEAAALTAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLPSPIYPALLSQHPPQGPPCG ASAPPSALLQRAPPPGTRTL\QR PPGPRVTCGTTP/MAAKAKSQS NAPRGSLKKSNSFYNIPLKQV SCLITISKHSRNEVSUYQTSRPR AAATDVPRT\PSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSPRLRCTISPTDGP NTERGSRKTGWTPGPPGFWPCP RPPTSNTTTPGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*ARG*PVGDLCRGPEAVVSTQVLLPRGLQ*NFAVLLLQMSCATPPPNCAKGCV*VPLEQSPFFHQAVACREWKRKGGMVCGGNASPQRTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGAIEWPRKPPAQICPQLTSRPHLSSPRSLSPGCGHSPGPG*SPQPPVMSLHEGPPRGPV/PSPVANPQPKPWLLRSVDLPVPWHLPTVDRTTSL/APSLQSDV/PAPSGAL*PSGRACSGV/PPID*APEAALSAAAPRPSLGSQNASGLPAASLPPQDSSQPHKTVSPARSVPPLGAQARAAPPRLWCPHALVSG*EASPEAVSVAAGPPVPGTPSTSGTASHSRRC*SPR*TPAPRRDHGRSAAFEVLAAAASAPCASQGGPRPTGAGRTPSLGLPFSRGPPAASARPFCHPSL*FSW*SSPSGLSLSDTPHSPRRPLGPVCGLRAPCPPQIPACRVPAHSQRWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLQDLFLGSYPRVLAAFDIQVFFLGTSDRM*NTG\LEYFMLNSWLWLLNRL*S WGELCHFIPLHSPVKRGLNFYLQEFFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSGIVVHQESVCATYGSGLSSTCIVDVGDKTSVCCVEDGVSHRNLCLAYGGSDVSRCFYWLMQRAFGPYRECLTNKMDWLLQHL/KRNF LSFRSRTSLGFRMTSFRFRHPDSPALLYQFRLGDEKLQAPMALFYPATFWICWTGK*RPLHTDLRAILKILTMNITCWPHKAHENS LQKLLTESLHPNLLDLKGIFVASPLIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGV TENGKEKGGEKEK EQRGVKRPIVPALVPESLQEQIQ SNFIIVHPGSTTLRIGRATDTLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRLNGLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRGQLNIHPGP GGSLTAVLADIEVIWSHAQKY LEIPLKDLKYRWILVIPDIYNK QHVKELVNMILMKMGFSGIVV HQESVCATYGSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHRRLRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFEFERGF LWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKT AISLFEG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVG GGFDFVIKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKMDMPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQRERHDEMA AAHTYFIGDGD TLTEDEDEDT WGMAKGHHAINIEGFKLARVE DEMQFQEREPEKVKIRGRTRGY TFIMLAALAAAEADMQVGEE L/C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVNLQ DDKGSMVL/MCASKHGHMEIHK LLLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPQSFI
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYYLPPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTQIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARIPAH QVLYSTGENASGKYCGKTQTI FLKYPQEKNNGPVPVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGFEFGKS FRIYPLPDDPSVPAPPRQFREL DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIEDR DHYIPNTLNPVFGRMVELSCYL PQEKDLKISVYDYDTFTRDEKV GETHIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSLRTQQLLQ NVARFKGFPQPILSEDGSRIRYG GRDYSLDEFANKILHQHLGAP EERLALHILRTQGLVPEHVET RTLHSTFQPNISQGKT/LQMWG GMFFPKSLGPPGPPF/NITPRKA KKYYLRVHWNKDVILDEKSIT GEEMSDIYVKGWIPGNEENKQ KTDVHYRSLDGEGNFNWRVFV PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPPR/LIIQIW/DNDKFS LDDYLGFPRTLTCRHTIHFQK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKDGARVMAGKVEMTLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNPCKTM K\FIVWRRFKWVIGLLFLILL LFVGRAPLTLLPNYFVQWKIVK PNVLTGKGKGFISRVIIQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLR CNLQGLEIELQWQLSM KAALEARFGPQLAQIQA LISSIE AQLGDVRADSERQNQEYQLLM DIKLWLEQELATYLSLLEGQEE HYNLSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTQC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTPYSPLWHGKLG RAAPTFNAPGRWLLPLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARAYPPP HPNQAHHSLCPAEV/MQMGVE SKRVGRGDRYRGVARR\MALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRARLGLPVLPLP QPLPLSTGSVITTQGVCLGMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPPTPSL* PIPFHPVSGGSPERRTPWKPPPS DLYGDLKSRNSVASPTR*E*A PPPLRRSWEWDSKPGLAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPAPLAPSASGPP VCKSSEVLYERPQPTPAFSSRTA GPPDPRAARPSSAAPASRGAP RLPPVCGDFLLDYSIDRGLPRS GGGTGWGELPPAAEVPGPLSR RDGLLTMLPGPPVYAADSNSP LLRTKDPHTRATRTPCGLPPE AAEGPEVHPNPLLWMPPTTRIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLPVSGPPH PPFLHARCYEVGQALYGAPSQ APLPHSRSTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESHVSVPRLCS GVISAHCNLHLLGSNNSATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	



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9033	39401	A	9092	1	6691	MVNTYREVKEGPVILEDLVIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAEIKTA NLLFNSFEPYYMWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLRMISALTSHL QTLHLSLTDSLRLCSKILSKVQ PPLLSASTGGVLQFPSGQNNV KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSESGFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGRTLGLWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNSKVTSRCGGHSGSPI LYSNAFPNKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSEVDPETVNA QEDSQMPKESPDDDVQQVVF DLICKVVSGLEVESASVTSQLEI EAMPPKCSIDPDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSSPCISGTH TLHDSSVASIETKSRQRSHSIQ FSFKEKLEKVKSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLERNLTYMVTREKIKRS VCKVQEIQIFNLTKLLEQERS GVPSSCSSSLENMLLFNSPSVG PDAPKIEDLKW/PFCISSENKVV LPWVSFG*KRPIKSRILLQN*PW K*RQNPAEAARPVW*KGGDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPWEKKRQSFSL*SH*R RLKGRIF*TESQAS/PGPQMCP GIWTTQELPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRMLLASKGDDPEDA KAKVLSVLKHSLLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDL CQPTR KGSKHFSQDVMEKLVVLVLAHL FGRRYFPFKQDAHFIFYQSKV FLDDLPEDFSDALDEYNMKIME DFTTFLRIVSKLADMNQEQQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEGD AYYLLKDFALTIKSISVSL/HVT YCENEDDNVVLAFEQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENS DQLMTLFT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTPVILTKIDGVN VDTHHIPVNVTLRRIAHGADAV AARWDFDLLNGQGWKSDGC HILYSDENITTIQCYLSNYAVL MDLTGSELYTQAASLLHPVVY TTAILVLCCLAVIVSYIYHSLI RISLKSWHMLVNLCFHIFLTCV VFVGGITQTRNASICQAVGILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRIPEP/RTFNQDQW LRFY PDLVGGYPPSLVLA*LA AANIKELRQSAKPHY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRHPERKYELKEP TGQQQRLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRTTVTELPQT SHVSFSEPDIPSSKSTELPVDWSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRKMAGKTSP WSNDATLQHVLMSDWA VSFST LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTS LGYGEYVIKITL/S SSTDLTWTHEIDLHRNSL*NRDS NCSNF/LREQAISDEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQMLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGHFHAADKDLLEMGY LQKRGLIGLTVLHGWGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVRELVTGCDYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYSGDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLFPKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSFTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPT VV ALYDYTANRSELTIHRRGDIIRV FFKDNE DWY GQHRERGQEG

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9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLD MF DVQIMA QTLVNGADSFSLAIPFFVLAGE IMNAGGLSKRIVDLP MKLVGH KPGGLGYVGVLAA MIMASLSG SAVADTA A VAALLVPM MRSA NYPVNRAAGLIASGGH IAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMMGATLT LGKRARFTEDDTR ERDAISVINHQ RNAVLIRQ RVK LQQLFVIRVLAMRIFVYGSLRH KQGN SHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELDALRTRGGE YARQLIQTPYGS AWMYVYQRP VDGLK LIESGDWRVLRWLRVH SIDVPDPIFGLTVTGDR TDRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSEMCQGAGVQA RVDYEAIPKLP GVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHA IAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQH YRSCLT

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9048	39416	A	9107	162	2106	KMSKLIKIAVSDSCPDCTTQRE CIYINESRNIDVAAIVLSLNDVT CGKLDEIDATGYGIPVFIATENQ ERVPAEYLPRI SGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGN SADFDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLS DLETAIVV VDRFSGEVRAMVGGSEPFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVP\KDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAYLTLWTM Q\QVVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTW FAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPPEDIAD MGVDYDGNFVCSGGMRLPV WTS DPQSLCQQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KDSDGVAGWITDMFGSNEHLS GYELDSYPLSSARRRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQLFVSNHIACWIRRP GDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR\ PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*QAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSPMAPDDT SGLLEFVGVP LQTLFAWVSPAE AAEQQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSA\PLKGLK PVITRLLQHGLLPINSPYHSPIL PVLKPDKAYKL VQNLRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPILNR AAPRQAQLGPNSSSASAPPPYN PFITSPHTWSALQFRFVTSPPPP AQLTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPTTSSPQ THQPKKHPPISNPAAPHQAELG PNPSSASAPPPYNLFITSPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKTTIDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGGDTL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSPGLEPSGAPPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLLCTSPGRRGGAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDFYKISTTKERHLQ QS*PKDS\VPSLLASQTPNAPFL APQRRCLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPGLK ANTQRTFESGMKHVRIIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWL DSSSPEQTVPYLWSEE TPATPIGQAIHRLLLIQA FRPDR LLAMA HMFVSTNLGES\FMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAIN TA VKSGRWV MLKNVHLAPGWLM QLEKKLHSLQPHACFRLFLTME INPK\VPV\NLLRAGRIFVFEP\PP G\VKANMLRTFSSIPVSRICKSP NERARLYFLLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGG RV DNEFDQRLNLTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWVELLPDTQTPSWL GLPNNAERVLLTTQGVDMISK MLKMQL EDEDDLAYAETEK KTRTDSTSDGRPAWMRTLHTT ASNWLHLIPQTL SHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADV VQVCEGKKKQTN YLRTLINELVKGILPRSWSHYT VPAG\MTVIQWGVPI SARRIKQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATRQYVAQAN SWSLEELCLEVNVTTSGATLD ACSGVTGLKLQGATC NNNKL SLSNAISTALSLTQLRWVKQTN TEKKASVVTLPVYLNFTRADLI FTVDFEIA TKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSGK TMTLFSALRALPDMEVGLNFS SATTPELLLKTFDHYCEYRRTP NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGPASLTQIYGTFNR AMRLIPSLRTYAEPLTAAMVE FYTMSQERFTQDTQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGV\PSLTTSMDVEP*AQV ELPSHPRVPSAPGPAP*VLEPP RSLTTSVVGPGQPSWAGGGMA VRQALEEAACRDPCIAISSWAG GDRPLWWLDGLLLRRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFPHMDLL*GQDPFSCR RPESWNRDVGWLALGVFCLVP FSLVGS LN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQTLIYDALERPRGWALLYH ALVFLIVLG\CLILAVL\TTFKEY ETVSGDWLLLLLETFAIFIGAEF ALRIWAAGCCCRYKGWRGRLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGEGETWKLLG\SAICA HSKELITAWYIGFTLILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSLALKVQEQHRQK HFEKRRKPAAELIQAAWRYYA TNPNRIDL VATWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLF TPLNVD AI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSSSEDAGTGDP MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP YDVKD VIEQYSAGHLDMLSRIK YLQTRIDMIFTPGPPSTPKHKE VFRKGQHFTFPSQOSSRGLNHM *ARPST\SEI\EDQRH*WGKFVKS LKGQV\QGLGRKLDLFLVDMHM QHMERLQVQVTEYYPTKGTSS PAEAEKKEDNRYSCLKTICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNEI*SRSPH*ITR NLNNSNKM AHKMKFAN
9073	39441	C	9132	170	310	



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9074	39442	A	9133	1	859	MSCGRPPPDVDGMITLKVADNL TYRTSPDSLRRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEAAAMDGAEEGRAL RIQVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRSRSYGRRSR PRRR\HRNRFFCPCSRSRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRYSRYRESRYGGSHYSSG YSNSRYSRYHSSRSHSKPGSSTS SRSASTSKSSARRSKSFSVS\RS RSR\SRSSMTRSPPGVSKRKSK SR\SRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTLQGHNSQNSMVLVPKQR YRSMEQNRLRNNVTYLQLSD L*QA*EKQAMGKGFPIS*MVLG KLASHM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEELSSPGRGGG GGGRLLLQPPGPELPPVPFPLQD LVPLGRLSRGEQQQQQQQPPP PPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGGSGGCGDTGK RPSGELAASAASLTDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDISQRGLT SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLQSFPLPPP PPHAPDAFPRIAPIRAAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKKGKPDGSFLVRDSSDPRIYLSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPELPPNS CQLIYPMRSRFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYDDPQEEVYLSLKEA/QS VSKQKQEVPEST*RGAPCWSP RAFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQCCQVFFCPVVS AHQGEV LPYKSGVTSIESFVTICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLNVVLFDRSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLA AKANTQ LAIIT*VLGAWERLEQGRADI VIAPDMHFRSSSEINSRKL YTL MNVYVAAPDHPH HQEPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLTVSTIEDKRQALL AGLG VATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPFVLPY MQKGT SIRTSSRQLLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRAVDILRERND ELAKLETLDTGKAYSETSTVDI VTGADVLEYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPGVGAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADDLAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPL*RCGGRYAD D*VQAGAGSDGL*ATGHGGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQR/LIDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFI\GSRGLC SGPLCAEILAT*IS\DEPMPMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAASISF LRWLIRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDHP\EN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPALIFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFSIAFASTIGAKILLAVLRLSR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRG/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHRLLRWEAKL AALVRLQENTAQPVFPAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALKDRENLF DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDFVSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNMMDRYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTYPVQGGGA VRVLVFSASLRRVSSVLFSLV WGFVSFCRRFVPCRVCLLCCL FWCFVFGVWLPRRHMSNHAAI GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRANFIEKNEQGV VNRWLSTASLPTFGRGAMTN HWVDIKNANVVMVMGGNAAE AHPVGFRWAMEAKNNNDATLI VVDPRFRTASVADIYAPIRSGT DITFLSGVRLRYLIENNKINAEYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRQYDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVVENICGTPKADF LK\APDRT\TTFLYALGWTQHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFGDAAQKENN WGYDWLPKWDQTYDVIKYN MMDEGKVTGYFCQGFNPVASF PDKNKVVSCLSKLYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTTTASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPPQRYSSRRTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITDPTEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNRPV RG SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKT LNK LVIDGTYRKIIIRAICDKPTANIIL NGQKLEAFPLKTGT RQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADD MIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNK WEN IPCSWVGRINIMKMAILPKVIYR FNAIPKLPVAF FTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLD PFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIK LKSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNNL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEIETQKTLQKMNES RSWFFEKINNIDRLLARLIKKKR EKNQIDAIAKHNHKGDIITNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQUESLNRPI TGAEIEAIINSLRTKKSPG\PGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMTF FTELEKTTFKFIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEIKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIGAEIVAHNSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIDGTYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSHAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEFLLTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFORKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	



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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRIKTLTQSH STTWKLNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITKIRAELKEIETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSPS*R/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT**MHKLQ*PI*SFGRKEIQT IRE\KHL\YANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPTGS EIEAII NSLPTKN SPGPDRFTAKF YQMYKEELVPFFLKL FQSIEQE GILPNSFYEASII LIPKPGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDAEKAFDKIQQCFMLKT LNKLGIDGTYVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLFNIVLEV LARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNFSKVS GYKINVQKSQAFLYTNNREP
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLARLIKK KREKNQIDAIAKNDKGDITTDPT EIQTIREYYKHLTYNKLLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIINSLPTKKSPGLD TFTAIFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVMQHINRT KYKNHMIISIDEEKAFQKIQRKF MLKTLNKLSDGTYLKIIIRAIYD KPTANIILNGQKLEAFPLK/NGT RQGCPLSPVLFNIVLEVLRARAI/ RLISCFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGQQLTRDVKDLFKENYKP LFNEIKEDTNKWSIPCSRVGRI NIVKTAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAIEIKMFFETNENKDTTYQN LWDTFKAVCRGKFIALNAHKR KQERSKIDTLTSPLEKEKQEQT HSKASRRQEITKIRAELEIETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAIAKNDKGD IITDPTEIQTIREYYKHLTYANK LENLEEMDKFLDYTLPRLNKE EVESLNRPIGAEIVAINSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRL ENYMKNAEASRADAINW KKG Y/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIW DYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLKL FQSIEKEGI LPNSFYEASII
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSM LLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA EFYQRCKEELVPFL LKL FQSI/EKEGILPNLFDEASI IIPKRGRD TT KKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFI PGMQGWFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKL GIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCP LSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWY WYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKLKLD PFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMAAKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL

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9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLCLKLFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLIGDGTYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEESPL VTHCGPSCCISGQSPSSARPSS VSSAISVLMLPQNRKLPPAWTS PGIFPTDLVVYSMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIHIQLRPPPYDVLQQIQ TTIREYFKHLYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRLI TGSEIVAIINSLPTKKSPRPDGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQLDLAVHV ATKLNRSHELLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMTP SEIQTIREY\YKHL\YTNKL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPFCCSRKA LRGSKTGSAYPSSALRRVTVS EVCCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRTGWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMACIV GDIAPADNIPKEEKHRRREGNK CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIRREAMKQITQLLPEDLRKE LYELWEDLEFESPSCDLSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQRSRKKE
9133	39501	A	9192	1	3907	MAAWNLLKSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELRREDIQTGKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVVRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEITNYLSDHSAI KLELRINKLTQSRSTTWKLNLL LLNDYWRKQERSKTDLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLLSRYLRIHVMV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVIKVR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDATIEIQTIREYYKHL YANKLENLEEMDKFLDTYILPRL NQEEVESLNRPTGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASILIPKGRDITTKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK KEVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSAEMDEMNEK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS

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9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDYRTLH PKSTEYTFFSAPHYTYSKIDHIV GSKALLSKCKRTEITNCLSDHS AIKLELRIKKLTQNHSTTWKLN NLLLNDYWVNNEVKAIEKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDAIK NDK\WDITTDPTIEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPTGSEIEAI TNSLT\TKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQIEKEGILP NSFYEASILIPKPGRD\TTKQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHDQVGFIG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQPFMLKTL NKLIGIDGTYLKHRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCP SPLLFNIVLEVLAARVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
9143	39511	A	9202	715	6193	GQHHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHINRTKDNHMI SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKIIRAIYDKPTASIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLLKLIGNFSKVSQYTIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCKRTEIITNCL SDHSAIKLELRIRKL\TQN\RSAT WKVNNLPPGMTYWVHNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGKDPKLTPLTSQKK\LEK QEQT\HSKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYSFICNRPLSVDI QLRCSNRVRLSTYC/LYLRQ LRJEGGNFVFTTKADNGPQQIIT *TNSFPVGNNAQTVKVRHHILT FFINLFGKEIGGPDHFNNGFTQP LPSSGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNISRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPETLCASKALQEQ RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	



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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGHVGVGDYVSLSCLPFGIMGH GNWPLWVLTACLVLLLC*/WSL RRQ*IQQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSWKK ISSWFMGPPIIRKSILAENSI*KN LV*VILKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAE AGVMMTQGTLDATIEAPSST KNKEQQRDPEMHQTKKGNQW HFGMKAHIGVDAKSGLTSLV TTAANEHDLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFNLCSV VVAVIAAVLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPADDEGALQK WWSVLPFFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQC GPSCQSA TDCLSWSDASPDRVAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPRPTSMTSISWVICFME RSNLSQMPATKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNRNVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVTIHKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYRHS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFITKSG MQRVAAEHNIIVVAPDTSRGS HVADADRYDLGGAGFYRNA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKSISGHSMGG LGALVLAALRNPDYVSVSASFSP IVSPSQVPWGQQAFAAYLAEN KDAWLDYDPVSLISQGQRVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTILIRYQRGAICSAD AATRGAKRESCRSGLLIAER PAKVEPGTASRQDNTAINIEM KASIRARVEHPRIKRQFGFVK ARYKGLLKNETNWCYSRWP/ HLFRADQMIRNPHDLYAPEVV HQAQVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRRCCG WFEDDDGHREQCDFRFRFKNC PQCNENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLRCS GMSLQHGHEKGEWLKITYYD EDGADVSEFRQLTPAQRATFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPRQGVVRNAALL PPDDRSDDRDAKTQSHRDG/VI SY/RAFDETILASGIVRTPPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSPWGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIKTVTSWICTG KLMLSTTSPLMMQMMVILLMP VLASKVKPKSTIN*LVSVSGNM NSKATALNLKVPPIKPVLP
9173	39541	A	9232	63	463	FPATCWSSINWPANCSRPSIAG WPK/PGVMMTQGTLDATIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKSA*P TAWSPRPTSMSTISWVICCME RSNLSQMPATKGRHSARSWP RWMWTG

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9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASA FCRLFSTPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSPWGTYNRHPR*N RQCASRHCRLHKQYQWPRI S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCSSSRFTFARVSVI HSANHRVLNDRSTIMRTRGQD PTLPEMRRVRLLEMADAMDMF CQGLRYGPLPAPVRQQAIIIPC HRVVRGDGTLGTYRWGVSRA QLVRREAENEERPINRGWPKQP SDDPKHFVMPTHIEAPSSTKNKE QQRDPEMHQTKKGNQWHFGM KAHIGVDAKSLTHSLVTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVKTLLKQNPKNKTA INIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLN\ETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

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9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAHGVQTLFFDH PNCIAFSRSGTDEFPGCVVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSVIDIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMKNVELLTGFSNRY DVPEQMTISIGTVFSTGDRNIS LVMTEADKALREAKSEGKNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLVDAIIEAPSSTK NKEQQRDPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERP GKVRTLKQHPKRN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKNMETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIAIDGNDA
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSCKPLPFSEVT GSKGKADKEKVG DYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTFFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLPPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGEKSVQ PAGKVLPYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRLKKELMPDVLMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNYIVGAIFGDDEV RVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIIRITLRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAISI TTLKVTVMASVLLPMNTKDS VSVQLMRNLIVPTLKLMMQKFF LKYLLPVKM MQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQPGP/LLPS LSAWRPSTSTLKPASCLRGPT SKRMSM\QDGGPLPHRAGAQP PVHPGQEA VG*C/EYWSASSRP VTQPGALMWRLWSAGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETIILRINALAFIWKCGT EWICCFCLALRELQQA VHAG LPQQA KILFDGGSEIGKIH*LRC AHCPLSSGKPVVPAALMNRPT RGERRFAYWAPGWFFFSPVRR ATADCPSPGP PERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCHMSHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAHA SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALAQHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYSPGPAAPLVLRSWPIPLFRP PLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGLHR RHGRRKLTNGTTRRSLQNKKEE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYPITSTPCHL CKLGQEVFAKPLNLQDQCQN LVMQVLKLVNCLNFDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKQORK WKIMEFGKWALQHKMTVKDIE RLQLYNKVKEQPQVEGSGRA STIFWVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGLYRLTSRYR HYAAFERATFEQGKSTKLMMML TDKQIADFQKHYTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSMEYDAAGRVISLTNENG SHSVFSYDALDRL\DEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLTDISHLSEHRV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGIFQPGFSAPTG/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRSARCPLLDLMGR RYRRPECRLSPLLPAAPVPGLPP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWRRHQPGPRGPAKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLPF PAPQTDSALPGAVRG*RAR*YH *SRTTTPPPDEHDHSWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLEVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSNNGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHL YHWTTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVVYQPR*TWHWRWRQKGRKS ASGRRYLRPINPNNVGRENQRP TSPDGTHMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLAIAI ARAGDVVRFPADSELPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAA\LAAGALSNAALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGFTGAISNRSGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGDIIQRVGDDRCRLVD VRVLAATNRDLREEVLAGRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVV\LARATRSRGDEVIL EAQHFAFPEVTLPTPEVAAPV VKQSLREAT*AFQRETIRQALA QNRKWTACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPCEMCEDIPC AKVCPS



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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMPGWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHD LAP FDDYHKARGLRWPVVNGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLFIYPL DAKARDLRRGDKVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTL DATDPLSKET DWP HFSSTYNGPLLQGANKGIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVT <sup>PM</sup> GSRMLKRWLHMPVRDTRV LLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPELRAQLETVD SA PVQALREKMGEFAELRDLLER AIIDTPPVLSWMSGARWLTARP IICN YEVDRTIRHTKMNVGDVQ RLSVAVVVNYKTL PDGKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSP FNSSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPVGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQH YCRQDSS EDF AEMSLIEGRRGLRRRPLWEFEI DTARQQLNLQFGTRDLVGFGV ENAPRGLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVT <sup>PM</sup> GSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPGTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFFLREQESHVSTQA GVQWCNLSSLQPLPPGFKQFSH LTGALPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGHSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTGRP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIAFI FSGKPGTGKNHAAAICNELL RERNLGESEIHSTSDHMTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAKAGTGIDELLA DAILLQAEVLELKA VRKGMAS GAVIEFPSLDKGARGP\VVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLEAGPSIPVEILGL SGVPAAGDEVTVVRDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDLSILFRRIS VLKKMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKLVSDQ*MGTA*RQ RIHPIPSIPLW/YPEGPSVSRPE AGGYNSLLMVTHGK VINGGRG ILIESD\EPGDAR*SSGSCARHGL VFWLCSCRRCMPQTIEAIQHPN A/VAVNKIDRPEADPDRVKYVL SQYGILPEEWVGESQFVHGS AK AGTGIDELLDAILLQAEVLELK AVRKG MASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGGKFREVKL ARQQKSKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVKVKIIGSGVG VIEAES LDLRYYSVIYNLIDEVKAAMSG MLSPELKQQIIGLAEVRDVFKSP KFGA IAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESLRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFEIIEIQR TIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFRKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFKRQEVAP TSSGLMFRLMPWVLIS SMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFFALSGLDTGSPFAGV GASRELTGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSLACL TSLV VTLLKRL

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9209	39577	A	9268	2	627	CGSIIAL/VAIFKSFFGHYLGTL GLNGLVLKFGYKGDCTKVSLG KLNTISMIFIMGSTWVVAYANP NILDIEAMGAPIIASLLCLLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFIT/LEYAASIIAL VAIFKSFFGHYLGTLGLNGLV LKFGYKGDCTKVSLGKLNTIS MIFIMGSTWVVAYANPNILDLI EAMGAPIIASLLCLLPMYAIRK APSLAKYRGRLDNVFVTIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSLPSSFR STRÆ*YESMLGRFFERTACLQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLISLIPYW NSAVIDQVDLGLSALTGHGILI TVWGG\ISTK\VFPLNFPNVFSF G\VSK\RKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNPVLSH LANHFASMTGKTTFSTILEYA ASIIALVAIFKSFFGHYLGTLG LNGLVLKFGYKGDCTKVSLGK LNTISMIFIMGSTWVVAYANPN ILDLIEAMGAPIIASLLCLLPMY AIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCNT/MQLQDLLLRA HLRPPMAKLLLEPAEGFPGTS CLLEAEPSTIRDVVLIASQPASQ PASQQGSQI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDAPTQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLDSAWVPYT HFHPIYQGKSGMSGERGAGKVI FEPQ* AHRMLAALSQGSLLILIKG EYDQEAFFSEAFMRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFDPV KVTILTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRKINMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIDQSTAA LTLSPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRVVLQ TSKAEIIGNGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRSADNDTREKNKQTNRS KLRLVETSGSPPTSSQTDP AF RYPKKY\CVEDCS\YRPE*PRITP DNRLLYGGGVVYGARDPDVVE RLVVPKLLKTFPQLKGVKIDYR WTGNFLLTLSRMPQYGRDLTNI YYMQGYSGHGVTCNHLA GRLI AELLRGDAERFDFANLPHYPF PGGRTLRLVPFTTKSAAYY\SLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGNRNSVDGCC EKAMSVIIVGGGMAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVS DR GHAGFGTLRSRKITTWGL*QRSW ARWIWYPFAKNYHLGALT TVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK*RW RVARR*RAACW*S*WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPVCFANHLTVKM/PHQSPV PDH/QALISHRIRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVIKCS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLFPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVPEPDDVILPPEK AKAKGLTSTVCFPTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVFVSEAQAIIKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRSQLRRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIA SFI FSGKPGTGKNHLAAAICNELL RERNLGESEIH TTS DHMVTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVVTVVQQFHIGNGYVVI TITPSEGERYQG VVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPT EVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAGAGTGIDEL\A DAILLQAEVLELKAVRKG MAS GAVIESFLDKGRGPVATV LVRE GTLHKGDIVLCGFEYGRVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVTVVRDEKKAREV ALYRQGKFREVKLARQQKSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDSLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLL VKGGCAVNCRYCFRRHFP YAENQGNKRNWQTAL EYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVVHQHDVGRRVQRL PFIHDALFHQQFFNQHTTFGQ VHLARFFVHREVDSILFRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCD SFTICLSKGLGTPVGS LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ LRETG\A A\DV MRQDTNML\FVRVGEEN AAALGEIT*KP\RNVLINASPIV RLERDVPQRILVLGASGYIGQH LVRTL SQGHQILAAARHVDR LAKLQLANVSCHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFRYCLRPSY DPRVFPCLCCRALLVLPCLLIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQSRCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

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9236	39604	A	9295	236	742	VATRCRSRSPSPSLSPSLSLRVMIP TTSAYSFMITAKSSPAVLKLSN ASERVNVSGTISVLRICITPLFSA RLWLASTRFSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRSN/TNDVFTAATLITERDG IPAQRRFQSARVPVYVTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMAIFTILILPIHEQGMFFHL FVTSFILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VLLFVYRNACDFCTLLILYPETL LKLLISLRRFWAETLGFSKYTIM SSANRDNLTSFFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLLL VYSGI*LLPGLVW KGCMPGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQRAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVVCALFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAIIVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGRLFGPLAL HQNVCDDGGCGAAGDRSDPD GLLDPWQNSAGKQ*PAQSLFDS CLSSAVAESTALAENHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EGDLLYMPCDAAQGIPQRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	



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9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSGVRRDGYRRFG RRPSG*PGNWSSSPVEKSATRT LRITG TSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSANSRS VLSVTLPDTSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPEAIIWFLIRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFVVLLLEVL HIPCKLYS

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9256	39624	A	9315	1	2680	MLVLPLFQPFMRILDHDDSSID HRPDGNRNATQRHNIGIQSLEV HDNKSNTQPQRQRNNRHQRRRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFNRDA*MVMRS LIRSMTVARAVIGVAICNKGLP ATMMALAAQHNIATVLVPGGA TLPKDGGEVNGKVQTIGARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVVAEGLGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITTREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLHEDV MTVTGSTLKENLDWWEHSERR QRFKQLLLDQEQINADEVIMSP QQAKARGLTSTITFPWQYAWIL HPDLDPETLLKLLISLRRFWAET PVGKNRITQMTNARHRTGFQG VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHRFRHHIQR FARFQHFLPGFNNGRQRLDVAS VFMEFTTGLMSLDTALNEMLS RVTPLTAQETLPLVQCFGRILAS DVVSPLDVPGFDSAMDGYAV RLADIASGQPLPVAGKSFAQGP YHGEWPAGTCIRIMTGAPVPEG CEAVVMQEQTQMDNGVRFT AEVRSGQNIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PALLRVLDIGKICHLARKVGAVS VVDNPFIRPALQNPLALRADLV LHSCTKYLNGHSDVVAGVVIA KDPDVVTELAWWANNIGVTG GAFDSYLLLRGLRTLVRMELA QRNAQAIVKYLQTQPLVKKLY HPSLPENQGHEIAARQKGFGA MLSFELDGDEQTLRRFLGGLSL FTLAESLGGVEKLISHAATMTH AGMAPKARAAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	1	636	
9261	39629	A	9320	1	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISEDVELNAARYR DEEIQRTPQRYSSRRPTQRHIV RFTKVEIKEKMLRAAREKGGV AHKRKPIRLTADLSAETLQARR EWGPTFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQASPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKKLDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVSVMEDMNEMK SEGKFREKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIIQENFPNLGQANIH IQEIQRTPQRYSLRRATPRHLI VRFTKVEMKEKMLRAAREKG R/VTHKGKPIRLTADLSAETLQ AR/TEWGPIFNILKEKNFQPRI SYPAKLSFISEGEIKYFIDKQML RDFCHHQGLPLKELLERKALK HGKGNNQ*PPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDCTSLSSRFQLEDGVS VMEDEMNEMKSEGKFREKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIIQE NFPNLGQANIHQEIENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGKYLGI*VGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRY
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSPDKVDILDTTAFRI AINEVKHSLTSTVTVKVLD MF ISRSSLFPID DGLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KV FVGGLPPDIDEDEITASFR RF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTDPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIDKRVEVKPYVLDDQM CDECQGARGCGKFAPFFCANV TCLQYYCEFCWANIHSRAGRE VHIPLVTESAVAAPRIHIPWT
9267	39635	A	9327	2	126	
9268	39636	A	9328	1	1327	IASNSWNASSSPGEAREDGPEG LDKGLDND AEGVWSPDIEQSF QEALAIYPPCGRRKIILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSPLPQA VFSTSSRFWSSPLLGGQQPGPSQ DIKPFAPA YPIQPPLPPTLSSYE PLAPLPSAAASVPVWQDRTIAS SRLRLLEYS AFMEVQRDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGP\VDVR\QIYDPNFPEKKGGL KELYEKGPPNAF\FLVKFWADL NSTIQEGPGA FYGVSSQYSSAD SMTISVSTKVCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEKYMMSV LENFTILQVVT SRDSQETLLVIA FVFEVSTSEHGAQH HVYKLVK
9269	39637	A	9329	2	339	
9270	39638	A	9330	1505	1876	TYGCASPSRKPRV MPLVTAQVP ITALRVNSSSIP AQSAVETTSNR PPTTGVP AFRPVRAAV*AVIS PQ ISADPTTGGR A*LISAIPSQSVRH GSYSPRLML*RLDSEILLSSQPL TPVKHQRR
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGEVTLRHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFIYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEEHISSSHGDVDYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYQP/TLAEEMGVLQE RIPSTKTGSITSVQAVVVPADDL TDPSPATTFAHLDATVVLRSQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLLAILGMNDLSEEDKLTV ARARKIQRFLSQPFFVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFYMVGSIEEAVEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGAPLQGPNG SQDRL/ESGTNRCGLRGPLVKG GKGGRFPSARLIQTVKKGGTPS RDHA\IEPSGY\SVSAGVGE\RT KGSVFAHEMPDCNVIDKVSLV YGMTEPPGNCMRVALSGLTM AEKFRDEGRDVLLFVDNIYRYA LAG*ERFATVGR*ASN/AVGIQP TLAEKMGVLQERITSTKTGSITS VQAVVVPANDLTDPSPATTFA HLDATVVLRSQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SI\LRFQELKDFMALP/G LSDELSEEDKLVARARKIQR LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVSAEQQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG HEEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDDQTLMPGLAIRGIRHRH QQAGVRILLNNAIEHVVDGEK VELTLQSGDTLQADVVIYGIGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDVPITSSLINV VDEIHDILLTQPVATRYCIVKVI FEAVMILRDSSGAPFCSNGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGV PSTFS VINYHSLQ KRTTNLTHRQLLNLLSTVLYCS CPSIQKLLMLQTGQPSGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSSHRLLLH SGF*AAALLGVSEMTIRRDINN HSAPVVLLGGYIVLEPRASHY LLSDQKSRLVEEKRAAKLAA TLVEPDQTLFFDCGTTTPWIEA IDNEIPFTAVCYSLNTFLALKEK PHCRAFP CGATPFSNPSIFSKRV NNFCRDIAFYYSAGVHVSKGV TCFNLKRWPVKQWAMSAQK HVLVVDHSKFGEVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPKVSRHPVIIRLREPGLE PVMEFHHPVLPQRTTESAVVHI AHTRKSWRPEHSAPVLIQTSPV ERGPQYIQCYQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSCTANWHQNTTT FNSTANPSTFKPPTSAAALRVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGPRRWLHEQRFP TSDTGHTADDFRKLDPICQGP YGSRHRSVKSEVNFKEKRYAF APAASFRYTVLIRFCAPPNTGRF LLTGTPMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMASKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGRTTAPTIAAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGESRDRAQEMVDLLAQ YEQHGLQLNSRELDPHLPLYLE YLAQLPQSEAVEGLKDIAPILAL LSARLQQRESRYAVLFDLLLKL ANTAIDSDKVAEKIA/VRSAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLLPNYYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYTTFICNPLNLSPQRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLDALHGDMAFM HSVQDGAASKSYGLAVAALAG VPKEVIKRARQKLRELESISPNA AATQVDGTQMSLLSVPEETSPA VEALENLDPDSLTPRQALEWIY RLKSLGKTMPSTRYQKINAHH YRHIWVVGDIHGEYQLLSRL HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDSEHQEAIDLLLKF HHLPHIIEITNDNIYAITTCVGN ARRAHAVHFCGDVARLLTCQI NIYRGQFRRLPRTFHRRLTKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFGNDL PSSPVEWLTONGSCYRANETRO FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAFAFEHYNEWHPHRAN PITYQAVCANHYRTLNNGTMT NTG*QYNVYHIYLQPAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPILAPYAPVRSVCLR*V*T DLPEYGHILFQPADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLLEFTRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGHVD MSRHMNRHIEINPEEGWVRVEA GVIKDQLNQYLKPFYFFAPEL STSNRATLGGMINTDASGQGS/ LGVRAVLLGGDILDTQPLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLG TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLANEWLASALE QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVKRVEGTGV RHPVQALLEIHK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLLFCGLLAGRNRHQ RSVRALSQRKMVPTDRK*RCA RRAAR*PSARVL*SGE*TDRQH AD*PTIR*RRSWYLRPAVYASV RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGPAPLQPGN SQDRL/ESGTNRCGLRGPLVKG GKGGFRFPSARLIQTVKKGGTPS RDHA\IEPSGY\SVSAGVGE\RT EGNDFYHEMTDSNVIDKVS YGMNEPPGNRLRVALTGLTM AEKFRDEGRDVLFDNIYRYT LAG*ERFATVGR*ASN/AVGYQ PTLAEEMGVLQERITSTKTGSIT SVQAVYVPADDLTDPSATTFA HLDATVVLSRQIASLGIYPAVD PLDSTTRQLDPLVVGQEHYHTA RGG*SI\LRFAQELKDFMALP/G LSDELSEEDKLVARARKIQRF LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGVGSIEEAVEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQKS L*TMPSF*RLPAENSLFEI



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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPELA DASSDQQDNGAEMNLVYDRD TMARLGIDVLAANSLLNNAFG QRQISTIIYQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQPANAPLSVNHQG LWRAL\TIWFTLPTGKSLCADPS AAIDRAMTQLGVPSTVRGSFAG TA\QVFQETMNSQVILIIAAIAT VYIVLGILYESYVHPLTILSTLPS AGVGALLALELFNAPFSIALIG IMLLIGIVKKNAIMMVDFALEA QR\HGNLTPQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQPLGITIVGGLVMSQLLT LYTTPVVYLFFDRLRLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDTTIVNTALPSMAQSLGESPL HMHMVIVSYVLTVAVMLPASG WLADKVGVRNIFFTAIVLFTLG SLFCALSSSTIRIILRFVSLHMR WQFRDLTFWQMRFRNTNPITSG GSDDSLMNQSHQRSVSSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRF*R*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGCG VQAAVENPELGLINNWLLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQQRTRNRQLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTVILSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRNAVQRPCNGGQSV QSTDEAAGRLSHADTHPGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESDFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNYL RVREWQDIYTQLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEYTGA RNARFSIFPGSGLFKKPPKWVM VAELVETSRLWGRIAARIDPEW VEPVAQHLLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALLHDTIELGTSPAF LITRWGFRNL SRTSGGPRQEP RRKEIAMELVLKDAQSALT VSE TTFGRDFNEALVHQVVVAYAA GARQGTRAPKTRAAVTGGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKPN*DSVPMTL/ RRFIEVRVFQQIHHRQRP AHL W
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRISHDVISARHFD SWWKKVSRETPDLLNFEKSMLI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVTVHIP LPLLNQVEESGF EWQIPGL/RRE LVMPD*SCQTVTEFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGTTSLEILTTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEEIGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKLDL TTSQLTTLPLAGLGGLMHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFFKASG QWEAEDLHLDDEESSKRPLGLL ARQAENHYDQDLDELQLEMED SKP/TPSVQ/CSPTPCPFKPEYL FESWGIRLAVWAIVLLSVLCNG LVLLTVFAGGPAPLPVVKFVVG AIAGANTLTGISCGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLLTAAVQ CSVSVSCVRAVGKSPSLGVSRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVA\LVMMLKLLFSWFVGPLP YHQNWYCDLPRGDFAVWDC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRLRTPRRRTQGPP*PL CCGREDAGERASCDSYPQALV APSLMWISFCEAS*SWAGPLEL ETYGFPSVTLISCQQPGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYSPFFSSPLF PFLSPPSVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*I*ED*SPHVSQVPV EGEEECVKKQ/GRFSWNTSTS* RQT/TARKKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEETKK
9309	39677	A	9369	1	1911	

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9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILLI HVTFSGIRALAVPFRLPVEKMS FIFMGDVHRMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGLIIRKPVTVHSRAR CRKNTLARRKGRHMGIEFACFC CVFLTPALICMVCAVRLLTRDP YLASGDQPLERATGEHASMHE Y\PGELG\QPPGLYPSSHPPGRA GTLRALSRQDTFDADTPGSRNS AYTEL*DSCVDMETDPSEGPGL GDPCE\GTPPARQGSWEDEEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAAMSMLRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGSQ MPGMPGEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRPHVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RQDKGPQRSFLADQA*RP QGLRTKESTESASEERLPGQRK EEINQRLYSKEGRRPRNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQPWPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCVAVMLLLSAWG LFDFWNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASD\HGRPLP\SARTR TLLTLFRNALAVIISTITIMIVLS EIGVNIAPLAGAGALGLAISFG SQT LVKDIITGVFIQFENG MNTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFAN\FV RGIGSVGANYDVRHEDADKA NQALRDAVEDDETRFTSESSPIL RCCQREGLGLKAVVQILLSHGR NGLPGEPASSQGLSAASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNMVLEQCFS DSS SLYRFLTYSYLLAFNVWLLAP VTLCYDWQVGSIPLVETI WDM RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSGLQKQK GKG SVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQQAFGEEGACWGGCPKHR VMLDASGKPGNLNDLCAGYQRD VRHLPRYLKAMADLLAHGRPA SDIMHAHLLV
9315	39683	A	9375	102	916	RSLLAIFNHW*\KRDLGKFLVW NIKW/AFAKFCRSAGQTSGRSVI VEHNGEIIYACDHYVYPQYRLG NMHRQRMAEMIDSRQQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGNLNYLC AGYQRYFRHLPPYLKAMADLL AHGRPASDIMHAHKVFKRGT ACSGFQKGGPLFRSRTGYCPTL RKKAPCPKTGLLGKKWTPQRR NSSGKSCAKRRGDPPLLENRFN GSRVQRKPQWNSCTGHPENNF FPNYGGTPYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRIARLQK ILHSYVPEEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TTDRHSLHEEENNIFKRSRKKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELLPINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLA\NLALCTSAKCVGWT*YPP QSLKQEYQRVYSVGCTRNWKL GPVAEMHSRSLHPVRVFLQFS AIRSRRFAVLLSNCGASAWFPT SLINPYPI
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGPGGHAAAAAGGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPARG AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPRGAPHR PLQRALPPIRREPERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHAQQGQGPARTHPAEPGP AARRAQSLCRHWD*GRGRPG PPDALRGGGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVCVKEKEREEKEGKEEEE EDEAVAERGGKGERRGERRGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIGHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATLGG GSSVS/SIASRKPTDGASSNCV TDISHFVRKKRKPEEQSPWKDD AKKVKQELVNGGSGDAVPSG NEVLENMEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHKL AQTDLLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHELY SSREKRKEKKKKPPHGRLPPTP VALHGAKRRLTLKRLFNASPN KPKGHSQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANSCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAFFC VARLQ\QEGVKSGMYVVIEVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEKLAIEPNDYTGKGSEENE
9322	39690	A	9382	139	710	WDMANSCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAFFC VARLQDFKLDFGNSQGKTSQT WHGGIATIFQSPGDEVWGVVW KMNKSNNLSLDEQEGVKSGMY VVIEVKVATQEGKEITCRSYLM TNYESAPPSPQYKKIICMGAKE NGLPLEYQEKLAIEPNDYTGK VSEEIEDIIKKGETQTL
9323	39691	A	9383	1	731	MANSCKDVTGPDEESFLYFA YGSNLLTERIHLRNPSAFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPQKWE SGSDTPYSQTRKDFKLDFGNSQ GKTSQTHGGIATIFQSPGDEV WGVVWKMNKSNNLSLDEQEG VKSGMYVVIEVKVATQEGKEIT CRSYLMTNYESAPPSPQYKKIIC MGAKENG\RLKYQEKLAIEP NDYTGKVSEEIEDIIKKGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LLCTDVVARGLD IPQVNWIVHYDHPDDPKEYIHR VVPAFVDLNVNGNEGKQKKRG GGGGFDYQIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIKVTKSPQKSTVLTNGEA AMQSSNSESKKKKKKRKMV NDAEPDTKKAKTENKKGSEEE SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKAIKEMGFTNMTEIQ HKSIRPLLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVILSPRELAMQTFGVLKE LMTHHVHTYGLIMGGSNRSAE AQKLGNGINIIVATPGRLLDHM QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIIKLLPTRRQTM LFSATQTRKVEDLARISLKKKEPL YVGVD DDKANATVDGLEQGY VVCPSKRFLLLFTFLKKNRKK KLMVFFSSCMSVKYHYELLNYI DLPVLAIHGKQKQNKRTTTFQ FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDPKEYIHRVG RTARG\LNGRGHALLILRPEELG FLRYLKQSKVPLSEFD FSWSKIS DIQ\SQLEKLIK\NYFLHKS\Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

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9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQTQAKREVPSK VPAAEKRESGPKQAAVNAAVQ RVQVLPDVDTLHFATESTPDG FSCSSLSALSLEPFIQKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKEVEKPDSEKDLLDDS DDDDIEILEECIISAMPTKSSRK AKKLAQTASKLPPPVARKPSQL PVYKLLPAQNRLQAQKHVSFTP GDDVPRVYCVEGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPFVRVKK/IMDQVQQ ASSTSSGANKNQVDTKKKKPTS PVKMPQNTEYRTRLNPNEDR VRGSFALDSPHHYTPIEGTPYCF SRNDSLSSLDFFFFFFDLSREK AELRKGESKDSEAKVTCRPEP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPDGRG AATDEKLQNFAIENTPVCFSRN SSLSLSDIDQENNNKESEPIK EAEPANSQGEPSRQLSQQLTK QASLSKNASSIPRESASKGLNQ MSGNGSNSKKVELSRMSSTKS SGSESDRSERPALVRQSTFIKEA PSPTLRRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSL THPSVQAESEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQSASSGAAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRHLSSASRPLSALSTLRFT SVSQHAAKRVVVIRPQGG
9328	39696	A	9388	395	761	SMQKKPRPIAHRQRCRAAMAA/ GQQPQIPITTGTGVVYPGAIM ATTPSPQMTSDCSSTASPEPS LPVIQSTYGMKTDGGSAGNQ MINGEDEMAMYDDYEDDPKS DYSSENEAPAVSAN
9329	39697	B	9389	1	477	



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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTS TSRRNPRTGASDERNNHEPGKN SPYLQAQ\VRIGGKGTTARRKKK VVHRTATA\DDKKLQFSLKKL GVNH\ISGIE\EVNM\FTNQGTSG STFNNP*KVQAISWAANTFHPL PGPCWRPKPADKKWLPQPSLN PSLGAG*S*LRFKGRRLARSFLPP NNP\VDGKATHLPTG\KDDDD\K VPRSLWRILMRLPKNEGKLEL RSTS*R*NLEEV\GSRYFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPYP GPGPTAPYPQYGWQGGPQEP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCCLWDMLT
9332	39700	A	9392	263	680	LLLPALVTSAPLPAGLATCP RLAQLGIGRAAPQKRSPRRNP EASRGRPPDGVRAPLR/VPPT PRETEPQRRGDPGLRNPCLSQA SPGAPQFSGP/PPGSPGTRPVRA* SPPGPSWVGPGPLHLTSPLPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLLTCSSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPYPGPGPTAPYPP YPPQPMGPGPIGGPYPPQGY YPRIPTVRLAGWTSGSLLKTTV LLWVGRPKKEEMKLGTIHLPSQP AGTGLCLLSLGTWFTLTRTRP RPFLFLASSAANLLTGVPCHLF
9334	39702	A	9394	3	470	PKAKKEAPAPKAEAKAKALK AKKAVLKG VHNHT\QKKKIHTP LTFQRPKSLRLRRQPKYPRKSA PRRNKLDHYAIIKFPLTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTCGTRGEGAFLEK YRKPACTALGFMFPRSHGLTA DTVLVSSLSRWFLWRLLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGPRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCKNCSA GTFVKAPCEIPTTQGGCEKCHP GTFTEKDNLYDACILCSTCDKG DFYGGKTA VHEALCDNIDTRT VMEEMRALVSQCNYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEEESPLGFPVGGPGTN LNPIENGGMDFLTTVSVLRKT HRVSNQNSVCRSVSYWPKPC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALRVTSCLSLGSG LKTMKPECLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREWK QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFTRAKTW NQPKCPS\MIDWIKKMVWHIY/ TCEYYTAIKKKIMSSVETWMEL EAILSKLTQEQKSKFRFTSLYSS RVFQRTQDVPYHNKLNEEADK PTTNKKGLILNRLVNTPIGRK NTGKLSAIEKLLKRPKRKHL KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKL KVKKSRKRLASHLSGYIPPK RKQGQGLSLCQNGESPNCVED KMLSAVPVLTG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFFSVFVFTFVPP EYYVLPAPPPHRSVFLVFGKRV VFFFPLPC/CDFRSLTPPFVCAP PAPPPLPFVSVPCVPSLSCGDVC AADKKNKKKFLNTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

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9342	39710	A	9402	2	752	VWWNSRRRPVKRRRLASPYS ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLGPRGLVV LGFPACNQFGHQENAKNEEILNS LKYVRPGGGIEPNF\MLFHKSE VN\GAGAHPLFAFLREALPAP\S DDATALMTDPKLITWSPV/CRK DPGKIKFFLGPPGNFFEKFLGGP CTVLP\RRYSRRF\QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	
9344	39712	A	9404	7	378	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIIV WRTLLKGTIIILHESSIHDNFNLT SQKLWAFVPNKAPRTSGIICWP EIQSAFQGGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHRF WWQFCT*ELPSALQPLPEGNLV SCNEQSFGAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETILSKLTQE\QKPTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVVAVVVVVLVVAVIVV VVVVVAAVVVGAVVVVVVVV MVVVVVVVVVEEDNQHKTA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQWQITKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGELQTTAQQNKGGHK QTEDHSMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAEOF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDT LVLRYMDDLLATHSETLCHQ ATQALLNFLATCGYKVSKPKA QLCSQQVKYLGLKLSKGTRTLS EERIQPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGQNF LYVTEK\TGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHHCCLP PPPQ TRCWLP SLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVSKPKAQLCSQQVKYLWLK LSKGTRALSEERIQPILAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYSYG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEA EWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDLVL RYMDDLLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRC SRG TSRGS LG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNPHNM TKQGSSIPPQKNHTSSPAMDPN QEEIPDLPAEKNSGVNKP RNPT YEGCEGPFQGELQTTAQQKNG GHKQTEDHSMLMDRKNQYCE NGHTAQAVPNPYTLLSQIPEDA EWFTVLDPKHAVFCIPVHPDSQ FLFAFEDPSNPMSQLIWTVLPQ GFRNSPHLFGQALAQDLSQFSY LDTLVLRYMDDLLLATHSETLC HQATQALLNFLATCGYKVSKP KAQLCSQQVKYLGLKLSKGR TLSEERIQPILGYHPKTLKQLT AFLGITGFCQIWIPSILTAKGDL WLSDNHLLKYQVLLLEGVPLQ LRTCATLNPATFLPDNEEKIEH NCQQVIAQTYATR GD LLEVPLT DPDLNLYTDGSSFVQKGLQKA GYAVVSDNGILES NPFTPGTST QLAELVALTWALEFGEGKRVN INTGSKYAYLVLHAHASIWRER EFLTSEGTPIKHQEAIRRLLLVV QKPEEVAVLHCWGHPK GKERE IEGNCQADIEAKRASRQDPPE MLIERHLVWGNPLWETNPQYS
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAEIRPPP RPPPFLLLLVFLFQTGPCSHPGC SPPPAHPSCSSWPQWPG/CSSPV SVLLAKPAACLIAA AVSANPRL LFKPCCRTASNWAHRQVTLCQ WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGGRYSSVPSAVHHART CLAAELSGTSRQEPRALPPETG VATAEAEKSNQPA AISK\PNGQ GAPLQR/RSPRLSPSPGAAQVPA LPMQDMSEGSSSPSPGGHIWL ASLTPCSLALWNCCQSPGSQP RGRDEGDCLVRATEPSATGDP RRTRLCSISASLVVRNTPDPGIS DRRPGISDRRPGTSDRRPGTSDR RPGISDRRPGTSDRRPGTSDRRP GTSDRRPGTSDRRPGISDRRPGT SDRRPGISDRRPGTSDRRPGISD RRPGTSDRRPGTSDRRPGISRLP RDWIPAAAASRENSNSADARN RCSSPSRKCTPTSHMRGSAG SVGSSAGHTAGGTGLPTPSRCS QALQVFPAVLGKRGFLSWERS LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

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9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNPSNNPS PQPWSEDQGGASATVPCAHSV MHRLLKKFTIEYLVMKFLKAVS HAIQMEMLAPKGPSPIPEDASV KEENICRAFSDALLYKIEDIDNK DWNNPQLCSDY/VKDNAYTSF QIQEMETILKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQKVLGGQKWNLKQQ CYTGYTQNEVLEV MQHVAKN VLKVNENLTKFIAIKNKYASNK FLKISMIPQLNSKAIKDLAFLPM GGS
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDLENIDTG VNS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNV NKQLKPTASVKPVQMEKL APKGPSPTPEDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVKDIYQYLRQLEVLQSIN PHFLDGRDINGRMRAILVDWL VQVHSKFRLQETLYMCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPS\SQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKYLMELTLIDYDMVHY HP\SKVAAAASCLSQKVLGGQK WNLKQQYYHKDTQNEVLEV MQHMAKNVVKVNENLTKFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

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9358	39726	A	9418	1	1875	EPEKQQLYDIPASPKKAGLHPP DSQASGQGVPLISVTTLRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSFAEESRPHALPSSS STFYNPSPGRSRLTPQLNNNV MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNIYDIPKATSSVSQAGKELE KAKEVSENSAGQIPHGSPDGQ/ RSPSPEPDRLSGSSSDSRASIVSS CSTTSTDDSSSSSEESAKELSL DLDVAKETVMALQHKVVSSVA GLMLFVSRKWRFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDSVQNSPDDLRFVMV ARMLPEDIKRFASIVIANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQPPQRETESHQKSTPSTKQRE DEHSSELLKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGPLIPQSSQQTPERKPRLSE HCRLYFGALFKAISAFHGSLSSS QPAEITQSKLVIMVGQKLVD LCMETQERDVRNEILRGSSHLC SLLKDVALATKNAVLTYPSPAA LGHLQAEAEKLEQHTRQFRGT

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9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPVWVRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGQGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSSTFYNNPPSGRSR SLTPQLNNNVPMQKKLSLPEIPS YGFLVPRGTFPLDEDVSYKVPS SFLIPRVEQQNTKPNYDIPKAT SSVSQAGKELEKAKEVSENSAG QIPHGSPDGQ/RSPSPEDRLSG SSSDSRASIVSSCSTTSTDSSSS SSEESAKELSLDLDAKETVMA LQHKVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTACNLTDNL QNRIRDQMQTISNSYRILLETKE SLDNRNWPLEVLVTDVSVQNSP DDLRFVVMVARMLPEDIKRFAS IVIANGRLLFKRNCEKEETVQL TPNAEFKCEKYIQPPQRETESH QKSTPSTKQREDEHSELKKN RANICGQNPGLIPQSSQQTPE RKPRLSEHCLRYFGALFKAISAF HGSLSSSQPAEHTQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLLKDVALATKNAVL YPSAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPIILSKKLHN RRAGCVTHLTNQIRGPPVRGISI KLQEEKERRDNYVPKVSALD QEIEVDPDTKEMLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLIINSSANPIIYFFVGS L RKKRLKESLRVILQRALADKPE VGRNKKAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYYMCLGND HTN/K/RVCEEIPIILSKKLHNRR AGCVTHLTNQIRGPPVRGISIKL QEEKERRDNYVPKVSALDQEI IEVDPDTKEMLKLLDFGSLNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	



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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIQ/SSQ GNSYTLIPSAKSDNLSSSHSEI SSRSSIVSNCSVDSMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLLKPSLIK CLAVSSSVSNEEISQEHIIIEAAD SGSWEVGTSCSSSSHDNFQSLP NPKSWDFLNSYRHTLDDPIAE VEPTDSEPYSCKSCSRTCGQC KGSLEKSWTSSSLSDTYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRSKMMHNSLSRLPPASLSS NLVACVPSKIVTQPQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVRNPVPAVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSTRSLKRSGV QALAQQTHSRNFLPEKQPFSAQ AAGILHGSINHNTGRGPCLEGT KMMTGVLRYAYLLCIAYSRDLI VDEQIMNGLRKAI

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGMS VIKVNGLQSQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTEVLA EGKGNTIEWVEEDTRNFGFGI QKHTDIGIKYDSSTGIYDLDFN VVLDRRASEEGITLTAALAADR ETPSENCLPSPVNPTAQGEEGIH PDPIIVLEQEDPTTAPHPQRLCQ QQQCQRPLCRLQPVWPHIVDLT PLTEIGSEEPVGELNFKHIRFEV SEDNMTFDASDQGPFENYWQ LVLSATPGDVTWNGALGLHTP KSSSPDTCSAQQASQCWELSPG GRRIGTLLLPQESGASWLPPGV TSSLAAVRVIMNCGDKATPRN GGVRTLKKLSSLPLSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLQSQSNPNRTTNGPDPSGMK VWVSPQGKNPQPTEVLAEGKG NTEWVVEEDTRNFGFGIQQHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPE NCLPSPVNPTAQGEEGIHPDPII VLEQEDPTTAPHPQRLCQQQQC QRPLCRLQPVWPHIVDLTPLTEI GSEEPVGELNFKHIRFEVSEDN MTFDASDQGPFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCSAQQASQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGT EDAVASADFSSMLSEEEKEELK AELVQLEDEITTLRQVLSA\KER HLVEIKQKLGMLMNLK\QNF SKSWH\DMQTTTAYKRTHDTL SHAGQKATAAFSNVGTAKKFF GDMSYSIRHSIMPAMRNSPTF KSFEERVETT\TSLKTKVGGTN PNGGSFEEVLSSTAHAASAQSLA GGSRRTKEEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFSS MLYEEKEEVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMLNELK\NFSKSWHDMQT TTAYKKTHETLSHAGQKATA\A FSNV\GTAKKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	<p>MLESVNVRLDLITGPCWEAG  WNAGYAFLVVAVEDFTIGKLF  DKLEGTKLCLKNALPRVITQTE  SHRQRLQEEAAANWHSWLIKV  QKMKAVYHILNMCNIDVTQQC  VIAEIWFPVADATRIKRALEQG  MELSGSSMAPIMTTVQSKTAPP  TFNRTNKFTAGFQNIWDAYGV  GSYREINPAPYTHITFPLFAVMF  GDCGHGTVMLLAALWMILNER  RLLSQKTDNEIWNTHFHGRYLI  LLMGIFSITYGLIYNDCFSKSLNI  FGSSWSVQPMFRNGTWKTGTH  DPHLAVLFKMGHVEGRDCVLR  IVLAKIGYRNGFLRKIWNLASN  KLTFLNSYKMKMSVILGIVQM  VFGVILSLFNHIYFRRTLNIILQF  IPEMIFILCLFGYLVFMIIFKWCC  FDVHVSQHAPSILIHFINMFLFN  YSDSSNAPLYKHQFNFGDVFV  HQAHTIEYCLGCISNTASYLRL  WALSLAHAQLSEVLWTMVMN  SGLQTRGWGGIVGVFIIFAVFA  VLTVAILLIMEGLSAFLHALRL  HWVEFQNKFYVGDGYKFSFPS  FKHILDGTAE</p>
9372	39740	A	9432	3	933	<p>GTWPVSSAASIYAGTGGLGVSQI  SMSCSTSFWGGLGSGGLATEM  AGGLAEMGGIQNEKETMQSLN  DHLDYLDVRNLETENWRLES  KIQEYLEKRPHVRDWGHYFKTI  KELRAQIFANTVDNVHILQIDN  AQSSMRQELAMRQSVESNIHG  LCKVIDDTNVTLLQLETMGAL  KEELLLMKKNHEEEVKGLQVQ  IANSGLAVEVDAPKSQVLAKM  EQLNRILLYLESKLAQNWAEG  QRKVQEYKDLLNIRVKLEAIEA  TYRRLLLEDSEGLNLGDALDSSN  SMQTIQKTTTRQIVDSKVVSEIS  DTKVLRH</p>
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRTVQSLEIDLDSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAIEA/TTY RRLLEDGEDFNLDALDSSNS MQTIQKTTTRRIVDGKVVSETN DTKVLRH
9375	39743	A	9435	1	618	AEHLLKPLPADKQIETGPFLEA VSHLPPFFDCLGSPVFTPIKADIS GNITKIKAGYDTN\QPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGLRFIQVFLQSIDGE RDENHPNLRVNAATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSKGQNVTEEECELEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSQLQWDNPTPPATRRPS HSSLRGEHAQ*GLLSFFERLSCT LSRFMPI
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIPMG HIKHRQGPKNKQQRGQKRDEQR MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSGIQQYAAAALPTVYN QNLLTQQSIGAAGSQKEACAY AVMSLASRAPVYRSFDSEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFMPNNEEAR\ARIMQ IHSRKMNVSTDTTLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLEHTGFVSYDNPVSAQ AAIQSMNGFQIGMKRLKVQLK RSKNDSKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	AIAAIDSDSSDGSRQSEWKFVK GFTILDAIKNIYDSWEEVKMST LTEVWKKLIPTLMDSFEDFIEE VTVDVWECTVLQTQI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVP\AFETLKVQSAWAGY \YDYNTFDQNGVVGPHPLVNVN MYFATAFSGHGLQQAP\GIGRA VAEMVLKGRFQTIDLSPLF\TR FYLQ\EKIQ\ENNILRHVCSGIG LPLACNPWLCLKSLVCWLPIFP KVLCPGLLSPSPVSSSSQAGHW HPIWAGQGTGSEAEGQ
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIAAFREPRLLVTDPR DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHSDPEEIE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQSTILE AESSPHQTPNLPAPWSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWE\KL LLAA\RAIVAIENPADVSVISSQE ILGQKGCAESFAAATG\ATPICW ARFTPWNLSLTQIQGSPSGEPR AFLLVTDPPQGLNHQPSHGGNL NV*PTLPLALVNPDSPLRRYVD \AIPCNNQGSSLQWGLMWWW\M LASGSFCAMRGTVISREHP\WEV\ MP\DLFYRDPEEIEKEEPGCCL RSQVTKEEFQGEWTAPAPEFT\ VTQPEVADWSEGVQ\VPS\VPIQ QFP/TTEDWSAQPATEDWSAAP TAQATEWVGATTDWS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFHGTVKAENG KLIVINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTTMENAG AHLQWGAKRPQGLQNIIPATT/ GAAKAVRKVIPELNGKLTGMA LRVPTANVSVDLTYHLEKPA KYDDIKKVVKQASEGPLKGILG YTGHQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RA\AFNSGKVDIVAINDPFIDLN YMYMFQYDSTHGKFHGTVK AENGKLIVINGNPITIFQE\RDPSK IKWGDAG\AE\YVVESTG\VFTT MEK\ALGAHLQGGSQKGHSSL APSCLMPPMFVMGVN\HEKDD NSLK\IISN\ASCTTNCLAPLAK\ VIHDTLVSGEGLKDHRAIP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGVWRRPQFQQSRC SHGN QGSAPWLNPTGAFGKETDLL\ DDSLVSIFGKRRL\KRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGVCALRRSAGYILV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEV\FEGEPGNKVK PGKSLFKGKKGVLFVPGGPPP LGCS\KTHLAKGLWEQG*RLCK AKGKSRVVALF*VVNDALCDW AQWGQAPQGGKARFGLLAESP LGPF GK\ETDLL\LD ESLVSHLL GIRRLK\RFS\MVVQDGIV\KAL\ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPLPPPYSSPCPALC LGPLQFGNVGQISAINTLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDR\MQKQI LPWAPAQMKIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDDIAALVVDNGSGMCKA GFAGDDAPRAVFPSIVGRPRHQ GVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRTT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG\ASSSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLGMESCGIHETTFNSI MKCDVDIRKDLYANTVLSGGT HQFPLPCRPGC*KKITALEP\AT MKI\RIIA\PEAQSTPLWNRGAP IL\ASLVHLPKMWQDQKSREYD ESGPLPFVHRK\CFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIFAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLAVYGKAQNRSYERLA LLVDTVGPRLSGSKNLEKAIQI MYQNLQQDGLEKVHLEPVRIP HWERGEESAVMLEPRIHKIAIL GLGSSIGTPPEGITAEVLVVTSTF DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGAVEAAKVGA LASLIRSVASFISIYSPHTGIQEYQ DGVPKIPTACITVEDAEMMSRM ASHGIKIVIQLKMGAKTYPDTD SFNTVAEITGSKYPEQVVLVSG HLDSWDVGQGAMDDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLL\QPL NITQVLSHGEGTDINFWIQAG\V PGA\SLDDLYKYFFF\HSHSGD TMTVHGIQTQMECLLLFWAV VSYV\ADME\EMLPRS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPMQGMHTQEKEQVK TLNKSASFVDKVLFLQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIEPELQSQILDTS VVLSDNSRSLDMSIIAEIKY EELQTLAGKHWDDRRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAKQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSGTAIIASSGPSATTS PP*TPAPGPMSITWSAARIASS CSTTITVLPRSRRWISVPNRRSL SRWCRPIDGSSSTYITPTRPAPI WLARRIRCASPPEVSVAERESV
9404	39772	A	9464	3	2790	EFVLIKKD\DEAYINKVELESR LEGLTDEINFLRQLYEEIERELQ SWISDTSVVLSDNSRSLDMNS VIAEVKAQYEEIANRSQAEAES MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAENEG LKGQRAFLEAAIADAEQCCELA IKDANAKL/SELEAALQRAKQD MAWQLR\LMNVRLALDIEIATY KKLLEGEESRLESQMNSIHT KTTSGYASGLSSACGGLTSPGL SYGLGASSFSRT



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9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRSYTSGPSRISS SFSRVGSSNFRGGLGGGYGGAS GMGGITAVTVNQSLLSPLVLE VDPNIQAVRTQEKEQIKTLNNK FASFIDKVRFLQEQNKMLETK WSLLQQQKTARSNMDNMFESY INNLRRLQLETALGQEKLKLETE LGNMQGLVEDFKNKYEDEINK RTEMENEFVLIKKDVEDVDEAY MNKVELESRLGGLTDEINFLR QLYEEEIRELQSQISDTSVVLSM DNSRSLDMSIIAEVKAQYEDI ANRSRAEAESMYQIKYEELQSL AGKHGDDLRRTKT*DLLR*TRN ISRLQAEIEGLKGQRASLEAAI ADAEQRG\ELAIKDANAKLSE LEAALQRAKQDMARHLR*VTR ELD*TFKLGPGETFE\ATYRKLL EGEESRL\ES\GMQNMSTHTKT GGYAGGLSSAYGGLTSPGLSYS LGSS\FGSGAGSSSFRTSSSRV VVKKIETRDGKLVSESSDVLPK
9406	39774	A	9466	1410	3244	PPCRRSHPRPLRGEQKPRPSQP PFAVPAAPAPQV*\PQMIDLCNV GFQFYRSLEHFGGKPVKQEPK PSAVWPQPTPTPFLTPYPYPK VHPGLMFPFFVPSSSPFFSRHT FLPKQPPEPLPRKAEPQSEET KQKVERVDVNVQIDDSYYVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLHTHMLTHQGTRPHK CQVCHKAFTQTSHLKRHMMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVECGLDF PTLAQLKRHLTTHRGPIQYNCS ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHLKQ HSLTHKVLRLGWGGRGLGK RSGALSRLGSRTVPVPLCTLPR GGLQGEIQAQSEFSPVCNHSP GVIQAEKKGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDHSLTSGAPL YVGKESKVHFRAYEDPGVKEH KCGICGREFTLLANMKRHVLIH TNIRAYQCHLCYKSFVQKQTLK AHMIVHSDVKPFCKLCGKEF NRMHNLMGHMLA\RNKGKPLK RLYCPSKFTLKGNLTRHMKVK

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9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKKISLELM SSFHKILKNKMGCQVTPDSKEL LKYLSYCNSYPLTGSPQEAPVS DVPLPVSKCSHCSVQLIMCLRP EHIPNSPGIKGGQIKQHEEKHPT LLHLDASHLMTCFVVMETLYV LIAGFKSLCSIHSYPPRTLRLHC EKVWDSLENERRHEKRGPAN FLHRLPAEHQWGIVQSSNIMAG LSARLQLFLEHRPFPVFELTAN GCPTKGLQGEIQAQSEFSPVC NHSPGVIQAELKQGPSGVPEILP QLNSCPTKGTCRYYPEGSRLPS AGTINKGPRLGFSRKGDHSLTS GAPLYVGKESKVHFRAYEDPG VKEHKCGICGREFTLLANMKR HVLHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFCKCK SFTAQGNSAPQEDAGSQGE/PV CLL/CPNWGQRKGRAWRHLRH
9408	39776	A	9468	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHALNDMIKE FISMGSVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDICDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLLSQIPEEAEWFTVLD LKDVFFCIPVHPDSQFLFAFEDP LNPMSQLTCTVLPQGFRDSPHL FGQALAQDLSQLSYLDLTVLQ YVDDLLAACSETLCHQATQA LLNFLATCGYKVSKEKAQLCS QQVKYLGLKLSKGTALSEECI QPILAYPHLKTLLKQLREFLGITG FCRIW/NFQALLERPVLQLCTC ATLNPVTFLPDNEVEEYNCQQII SQTYATRDLLEVPLTDPDLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSDRLAGAGGGGA AVTVAF FTNARD CFLHLPRRLVAQLHLL QNQAIEVV VSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI FVPVWDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADAEYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSQSEKKQETSWG LTEINAFKNMQSKVVPL
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	MCSWTAPVSSILTHPNWPVLR MAGLTGCASVAMKKKIEHNCQ QVIAQTFTTRGDLEIPLTDPGL NLYTDGSSFVEKGLRKAGYAV VSDNGILESNPLTPG TSAQLAEL IALTWAPELEEGKRVKRKKAI WREREF LTSEGTPIKHQEAIRRL LLAVQKPKEVAVLHCRGH/QE GNCQVDIEAKRATRSQVARGH KICDFPSCSYR
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	RRSLALSPRPDCGLQWHNLGSL QAPLPGFTPFCLSLPSSWDYRR PPRPANFLYFLVETGFHLVSQ/ SGLDLLTS\DP PASASQSAGITG VSHRARPQNLFFKVRCPE
9423	39791	A	9483	184	383	LGLQ\WRNLGSLQAPLPGFTPF \CLSLPSSWDYRRQPRPANFFF FVFFLVKTGFHLVSQ\GLDLL TS*SHPASAFQSAG\IGVSHRRP AITLQF
9424	39792	A	9484	1	416	MGRSFLGGGSTLMLLGGGQLH ILTPSFPSWTETGNYTCEFCGKQ YKYYTPYQEHVALHAPIRNSA KDDHRSASILSENRGSHQ/SHAS CHHHYHCHYYHQHHHCLHHH SYHHHHCHHHRGMWRNWDTV LWIHQTPVQD

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9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQSAP GSGSKIPQK\KVKLAADEDDEDD DDEEDDFDEETEEAPVKKSIQ DTPARNAQKSDQNGKVSKPSS TPRSKGQESFKKQEKTPKTPKG PRSVEDIKTMQASIEKAHGTV LGTTVGNIPLRGGNQEKFHGAA GVWFGKFGVQRKIQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPTEIQI TIREYYEHL\YAHKLENLEEIDK FLDIYTL\PRLNQEELES\NRKPN TACSNLRDGSLLLGDGHGSSIQ AAIEVVGAGSVATKGRGRQDD TDPSNRYHRPPYSQEEKEQCITL LLSWCLGDSQGPQCRPQLSLQE LRREFTVSLHLARKLLSEVRGQ AHRFVSPNAAGAGDGQT\PNPF WPPLTDLAPQAESHLP\GVNLYL LPLGEQLPDVSLTFQAWRRLSV KCTAVRAYQTTRVVETSSCRL HVKGASNASTHRSPKEVTQGT NKSERRTRETQRAIRERNMAGC CTCATDVLVTLQSLMEGLALQ PQRTRALLLGSASIKASCAVTH LMSENLGKGCSSKSEG\MVRRY AKHKKQEIKPY\YQRKSPSLERG QEEKKVGREDREGSENQYLYG PSNISEARNRLPECGRMGLGYV ARLFLGDRRSSTPSFASYDPSSL VTYGHRRSCRVS\DIRVPRLGPN VGGPCKGTGIDLQCEREKKNEE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKGLIHKIISVMIASEFILEE RIKTGLNAAKHCF\AAPSQAASH TISRPIPMPIRSASACSTPTHTPQ DSL\TG\GGDVQEAF\AQSSRRN LRNDLLVAADSITNTMSSLVKE LNSEVGSETESNV\DEFARTQF EDLVPSPTSEKAFLAQIHARKP GYIHSGATTSTMRGDMVTG\DA NPYVQPEDENYENDSVRQLEN ELQMEEYLKQKLQDEAYQMPL VPTKKEIHMEDFLSSLPEGAIAQ CPRTFIPDCRRKGASYSQTDDDES NMKTGDDGEP\CGHTEEDSSL AAASPKRGTTTPSSS

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9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGIH WSYRVPHHPEAAGLIEWWDCL LKSRLQCQLGDNTLQAWGKVL QKAVYALNQCPIYGTVPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGGMPPGDTTTIPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EEYARSTGDPLERLLVLPSPVIE VNGKLQQHNLGRTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRFSGYGFAYP ARNTFSKTTIHGLKECLIHGHI PSSIADQGTFLPKEV/RKWAH AHGIHWSYHVPHYPEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGGMPPGDATMIPLNLSSR SHLGMPTTSLKVVRMCSKDKY
9437	39805	A	9497	51	408	CVPEPRTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWTIGYSESQPTVL\RP GQPWPGRGVSGSSAPSVPSALR GPPRSSRSCCTWWCLWRCRH RDLGRDINFTL
9438	39806	A	9498	3	618	SSCAFSSHRSSRPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASAQ*SCAA\PTSSLA QRKSSRSPRRTATTWGTARRSR AHAVPAGRSPAPSASPAPPQAP RAWSAAPASPSRLSSAGRGRQ AAPRAPWRLRGPPRSCRPTCCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGSDLGRGDMAKRT KKVGIVGKYGTRYGA/SRVRK MVKKIEISQHAKYTCSF\CGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSAVTVKS AIRRL KELKDQ

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9444	39812	A	9504	2	1125	RVGRPPLPPRPTHPRRKPLPPNN VTGKPGSAGIISGPITTPPLRST PRPTGTPLERIETDIKQTPVPAS GELENITDFSSSPRETDLGK PRFKGPHVRYIQKPDNSPCSITD SVKRFPKEEATEGNATSPPQNP PTNLTVVTVEGCPSFVILDWEK PLNDTVTEYEVISRENGSFSGK NKSIQMTNQTFSTVENLKPNTS YEFQVKPKNPLGEGPVSNTVAF STESADPRVSEPVSAGRDAIWT ERPFNDSYSECKGKQYVKRT WYKKFVGVLCLNSLRKYIYLS DFLTGKFYNIQDQRGHGEDHC QFVDSFLDGRGTGQQLTSDQLPI KEGYFRAVRQEPVQFGEIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSG\RG G\FGG\SRGGVWIWVAVGDGY NGFG\NDGSNFG\GGGSY\NDF WENTNKSLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSTPP SPPSLPKTSVSLGFLCFKKS LAA SCASGRERQLEA*VWASQPLSP TQWSEGQLGVRVWASQPLSPT QWSEGQ/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGRGREEAIMKM VKLDRKVGRSCQRIGEGGQED DVVASILVSMQPHSPRTSPHLP YSKFKDFSSCNCARQGWKEMG ACVQRPSAVLGGTRPVSQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVMSVMKILRGNQR PSGDEQARGQRAREGLGGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNPQQQHNCY ANNSPQQEEMVGRQAETFLL GGVRNRKPWVGVRGLQGSH QQHIQGA VSSPSPKKG VSKRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSKCFADFQKKQPDDDSAPSTSNSQSDLFSEETSDNNNTSITPTLSPSQQLPTELNVTPSKEEYSQSENEASPVKRPRLLENTSEETSRSKQKSRRRCFQCQTKLELVQQELG\MCRCGYVFCMLHRLPEQHDCTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPVPNFFWKKDTFKLWGEVIRSTMWKT/DQSPSAAWMGFGAQQPQGGAPPPVIPPQAGYGMASYQTQILPSPHILAVFMLPERGPNPDPKRGFLDLARKNLGNWVSTITFLSRFPGVQVLQEFVVPGTMTPLLRPLELPMHFNPHFSTALASLIADELYLLPQLSVSQMGESFPSFDMMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGGQPRTLVVGNLSDVTEVLILQLFSQIGPCKSCKMITEHTSNDPYCFVEFYEHRAAAALAAAMNGRKILGKEVKVNWATTPSSQKKDTSNHFHVFGDLSPEITTEDIKSAFAPFGKISDARVVKDMATGKSKGYGFVSFYNKLDAENAIVHMGGQWLGGRRQIRTNWATRKPAPKSTQENNTKQLRFE DVVNQSSPKNCTVYCGGIASGLTDQLMRQTFSPFGQIMEIRVFPEKGYSFVRSTHESAAHAIVSVNGTTIEGHVVKCYWGKESPDMTKNFQQVDYSQWGQWSQVLGNPKPSDARYMANGWQVPPYELYGQPWNQQAQFGV\DQSPSAAWMSGFGA\QPP\QGGAPPPVIPPQAGYGM\ASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGPGMGKPRCF/RGE VFGIVIRGPGFPPGGRGRGRVGR GARGGKGPRIKGLGCPSTKLGA RLVKDH*RSKFPWRRSIYSYSG PLKESEVIDF\FLGGLLSKDEVFE RLCQVQEPEPVPGQRHQGSRHF VA\GNYQWPTVGSVVKCSQE /VWPTAHPVGPIILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRCGSVLVRPHWHPRGS GIVSAPVA\KKLLMMAGIDDCY TSARGCTATLGNFAKAT\FDAI SKTYSYLTPDLWKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGFLYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAVSGALGRAGWRLQL RCLPVARCRQALVPRAFHASA VGLRSSDEKQKQPPNSFSQQHS ETQGAEKDPPESSHSPRYTDQ GGEEEDYESEEQLQHRILTA LEFVPAHGWTAEIAEGAQSLG LSSAAASMFGKDGSELILHFVT QCNTLRLTRVLEEEQKLVLQGG AEKRKTDQFLRDAVETRLRMLI PYIEHWPRALSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAYNTTELVM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSPRSRRGGWWPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFIAEVPII AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPNDYVEQDDILIVKLKRGQ ELRLRAYAKKGFGKEHAKWNP TAGVAF\EYDPDNALRHTVYYP KPEE\WPKSEYSELDEDESQAP YDPNGKPERFYNNVESCGLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAEELLQ



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9458	39826	A	9518	1	232	FFFETESCSVAQAGVQWCDLG SLQTLPTG/SSRHSPASAFRVARI TGARYHVRLLIFVFLVQTGLHHL GQADFDLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAPPKVSSGPRL PAPQIVAVKAPNTTTIQFPANLQ LPPGTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSSQLIKKVAVTPV KKLAQIGTTVVTTVPKPSSVQS VAVPTSVVTVTPGKPLNTVTTL KPSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEFTRKLYVE LKSSPQPHLVFLKKSVALRQ LLPNSQSFIQQCVQQTSSDMVI ATCTTTVTTSPPVTTTVSSSQSE KSIIVSGATAPRTVSVQTLNPLA GPVGAKAGVVTLHSGVPTAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPVSKPV VSFCWDH\CKPVIQTPVQIKLA QPGPVLSQPAGIPTGSSS\KQLFS LFHVVVQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSFCRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSCKDEPFLFIGALQKR ILDIGKKHDITELNSDAVNLISQ ATQERLRGLLEKLTALIAQHRMT TYKASENYILCSDTRSCLKFLE KLDQLEKQRKDLEEREMLLKA AKSRSNKEDPEQLRLKQKAKE
9460	39828	A	9520	1	637	MLSNVKGGRKLPNGTWAHDL VTPPTASLLLLTEPAMPSVAF HSILIVTKGGVKRTRVPPPNSS GARTGNPLKVKHISFKTGDELIF LDPHTTQTFVDTEENGTDNDQT FHCLQSPQR\MNILNLDPSVALG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKPÆVTTTGAEFNDSTEQLÆEF DLÆEEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRRGYWGNKIGKP HTVPCKVTGRCGSVLVRLIPAP RGTGIVSAPVPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSY\TPDLLKE\TVFTKS P\*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/H MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFPRTLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSMLTMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHFPITQYPILPGYAAAG MQALARRRPILMFDSLSSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFVDYAPMDEIQNAEIN SQVRRYLEGTLDEIDVRNPSVT TMLSQPGPPSPGHTPTHALLAS EPHVNGCKTVSTVHEDYSGSSE SSNDESSEDTSDDSSIPRNRL QSVVAVPKNSTLPMEETSPCSS RSSQSYRHYS DHWEDERLESRR HLYEEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDSTSTHDVKS DPLGHPNSEETVKAKIPSRQQE ELPIYSSDFEDVPNKSWQQTTF QNRPD SRLGKTELSFSSSCEIPH VDGLHSSEELRNLGWDFSQEKP STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLGS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTLAFEVQSF SCSERETTLVLLLRSPA VPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAVSDQATPGHVKS LPPGALISRQGRGQFCSVDAVF LLHDSPELPSSLPHGASLPLASS DKQAEQTWLGAVGSVQCTSIT ACPRDLED RPHLTEHPPAGVHC GQNPCPCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFR TALGI LKLFE DILTKMDFIHMAQFLT R LPEDLPAEELFGPSIATIQMQR NKKWAQEPGHELEWPDRSFRP RVLACPMGSREHRLQPACSGST GQGHTKALFPETCCQSPIQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSLLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFDALDVDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFPPGQEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPLEITQEAGEMVF VPSGWHHQVHNLDDT\ SINHN WVNGFNLANMWRFLQQELCA VQEEVSEWRDSMPDWHHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRAVMGPPQVQAWKALDL WESSQVMGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFAFTKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGITTKIS RGTTIELSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVAS\CLQTGYPPVASVP PSII\NGYKGCLALS VETDYTFPP AEKIKTFLADPSAFVAAAPVAT TATAAPAAAAAPT K FENEES EE LDEDMGFGLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGFVFTKEDLTEIRDML LANKVPAAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITT SRGTIELSDVQLIKTGDKVGAS EATLLNMLNISPFSGFLVIQQVF DNGSIYNPEVLDNITEETLHSRF LEGVRNVASVCLQIGYP/TVAS VPHSIINGYKRVLALSVETDYTF PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTRQCGKKIGAKVGI RGSEVPAPAYWVAREDVSGSGS GLGGGWYVPCAVLVDLEPVT MDSLRSRGPFGILFRPTTSSLK NADKTFCIDNEALYDIYSRTLK LPTPTYGDMNHLLSATMSGVT MCLGFPQNLNADLQKLSVNMV PFRLHFFMPGFAPLTSRGSQH YQALTVAELTQQMFYAKNMM AARDPRHGRYLTAAAFQGRM PMREVDEQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRGLKM SGSFIGNNAAIQELF/QCVSEQF TAMFRRKA\FLHWYTGE\GMD E\MEFT\EAESNMNDLVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLSGTVKVGSLPFRLHWPVS YSSVTTRYHHRAGAEEGKDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQKSAFSCFHYST EEIKGSDCVDQFRAMQECMHK YPDLYPQEDEDEEEEREKKPAQ QAEETAPIEATATKEEEDQVNE GHKALSTSPFGVDLLQKALSSP SKKVSFCCPVHYNIQNNLF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFRMATSDL MSELQKDSIQLDEDSERKVVK MLLRLLLEDKNGEVQNLAVKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRAVGALGHLATACS TDLFVELADHLLDRLPGPRVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLVPLVEDFCNLDDDE LRESCLQAFEAFRLKCPKEMGP HVPNVTSCLCLQYIKHDPNyny DSDEDEEQMETEDSEFSEQESE DEYSDDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGTRRLWPAEIRPPRRRL GKGGQQVSHPPISCFCYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFH EGRKGALAKKPYNPPIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWPMTLPKSYKLRFVA EQVSHPPISCFCYCEEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLLEHGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNNGETKVIDTTLPVY PKKIRPLEKQGPMESRNLWREV TRYMRLGDIDAATEQKRHLEE KQRVEERKRENLRTPWKPKYFI QEGDGWGILQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSP VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMDIG PHLDGTISVVFEERLRQMGSW LKVNGEAIYETYTWRSQ\NDT VTPDVWYTSKPKEKLVAIFLK WPTSGQLFLGHP\KAILGAT\EV K\LLGHGQPLNWIFFGDKMGIM \VELP\QLT\IHQMPCKWG\WAL A\LTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYH RQYRRVPDITECKEEDIMCMYE AEMQWKRDYKVDQEINIMQD RLKAFQQSYRATQQGHPQAA SGGGSWRPLLQIFSLAASSASV RPGTSWQNCRPPGPD LGKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLLARGLDPF IGPRRDWLVPYPAVTGAVAFGF VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVGC GADDRK PRDLQILDRDRKGPELVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTPSPTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSNDPDGYIDVLQGLG QCFDLTWRDIMLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGT YDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQPPLL VVVRSAEP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQGKNTPKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTPSPTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSNDPDGYIDVLQGLG QCFDLTWRDIMLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGT YDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQPPLL VVVRSAEP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTEIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPQTLRKKRLI FFCSAAW\PEGSINYNTILQLD LFCRKGWSEVP*VQTFSLRD NSQLCKKCDLCPTGSLQSLPPY PSIP\TPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARVHVPFSLPDLKQI KTDLGKFSNDPDGYIGVLQGLG QFFDLTWDRD\MSLLNQTLTPNE RSATITAARELGDLWYLSQVN DRMTTEERERFPTGQQA VPSAD PH*DTESEHGDWCCRHLITCVL EGLRKTRKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIKFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLCQMERRCIAS WDHLKAIKHEMKPLLKQRMS ELLKDCAERIIILKIVHTRIINRF HSFLLFMGHPPIAIREVNINKFC RISEFALEYRTTRERVLQQKQK RANHRERNKTRGKMITDSGKF SGSSPAPPSQPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEEFTPPPPNSYLALGDIST EEWDLEVAQEYQERMPPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAE EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQEPEERASLS EKERQNEGVNERDNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILT NKRFLDMLYAHNRKSPDDEEKG DGEAGRTQQEAEAVASLATRIS TLQANSQTQDESVRVDVGCL DNRGSVKAFAEKFNSGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPFLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPA YRKSE GTRQTGAGDMKDG VWQGVPA TPDTPQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLDLKE GIDQLDYTLGFFFLVSM LSGGG LLGGSASAKAFELSYLEK VPEV KDTVHKQSLHHVCTMV VENF PDSSDLYSEIGAITRFH SFLFM GHPPYAIREVNI NKF CRIISEFAL EYRTTRERVLQ QKQK RANHRE RNKTRGKM ITNCVRH CVRMFS GSSPAPPSQPQGLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFPSVVLWKDLQNLKIQVPGLI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVRGPC AMATSVLCCLRSCDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNGRKIFGTGGCLASAPLHQN KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRNPANSLPQEG D/VVDDSAILD CQFSEFYHTPPP GF EKILFEQQIF
9515	39883	A	9575	3	655	



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9516	39884	A	9576	131	1066	SHSSSAAAHPLGLLPAAQSLA VFIEPWSQASSRGQLQ/VSAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEKNRL PANSLPQEGDVVLCWSNNGHS LCKEESLSPIPTSDGEERRRKR KKRKRKRKRKQKQQQQEAAA PAEADAEATAEAAVEEAAAR KEEEEEGEEGEGNGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQQPLGLWTREFFLE GHLLTRNETFTTEATPLIPEIGML SQMMSEEHI
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVLNLCEV LLHDCDACATDAECDSIQQATR NLDRRWRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTAAFPSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVTSLRRL KHFIGQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFQQEISLNHNKIEQIIAQGE QLIEKSEPLDAAIIEEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELELED SAALSDL HWHDRSADSLLSPQSSNLSLF ASLQPLRSER\SGRDTPG\SVDSI PLAEWDHDYDL SRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENAIK NTSGDHSALESQIRQLGKALDD SRFQIQQTENIIRSKTPTGPELDT SYKGYMKLLGECSSIDSVKRL EHLKKEEEESLPGFVNLHSTET QTAGVIDRWELLQAQALSKE RMKQNLQKWQQFNSDLNSIW AWLGDTEEELEQLQRLELSTDI QTIELQIKKLKELPESCWDHR\K AII LSINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVCSLLEE WRGLLQDALMQCQGFHEMSH GLLLMLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

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9518	39886	A	9578	2	3248	ENAVGSWTDDLTQLSLLKDTL SAYISADDISILNERVELLQRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLKKDYQEEIA IAQENKIQLQQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNEQQELQRD IEKHSTGVASVLNLCEVLLHDC DACATDAECDISIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIKKSKNSRCWHGCGEH GTLLHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANKHMEKCS \TLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGSLR GQGSYLSKNVAVPSEATTVREL HP**\TSLQRPPSDPGGWVVLGF PCNQFGHQENRQ\NE\ILNSLK VRSGPGGGFEAQLHGSSRKCEV \NG\SGAHPLFAFLR\EALP\VP DDGPRAL*PTPKL\TWFSGVFA TIVAWNFFEKFL\VGPDGVPLR RYSR\AFQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLLSSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNL VVASNTRLQLHGAMYGSGIYL SPMSSISFGYSGMNKKQKVS DEPASSKSSNTSQSQKKGQS QFLQSRNLKCIALCEVITSSDL HK\HGEIWGCPI/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWMTMSRAL RPPLPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVDDQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQTNATQ EVVRDLVRQGRLEFANGGWV MNDEAATHYGAIVDQMTLGLR FLEDTFGNDGRPRVA WHIDPFG HSREQASLFAQMGFDGFFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFLVLQEILES ENKGDPNKPSGFRS\VKAPVTK VAASIGNAQKLPMCDKCGTVL QQASAAAFSLSV
9533	39901	A	9593	3	469	LTVARSEHKVWSPLVTGEGKR HPYKMNLASEPQEV LHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISNFNN\ASSL VIDKESEVYKMLQEKQELNEHP KQSTSFWVLQEILESEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGGPGWGFRLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTSNMTHLE AQNRKIGCTDNLTLTVARSEH/ KKVWSPLVTEEGKRHPYKMNL ASE\QEV LHIGSAHNRSAMPFT ASPASSTTARVITNQYNNPAGL YSSENISNFNNC/ALESKDWLPA GVEANSRPLDHA\QPPASSLVID KRILKVYKMLQEKQELNE\PPK QSTSFLGFCQEIL\ES\EEKGDPN KP\SGFRSV\KAPVT\KVA\ASIG KCSRKFAFCVDKCVHLGFLGV FLKLR\DRHRHP*VFMCC\DC GHQT*KQKGPFLWMDQ\IYCE ESMAPGSEVNTHPEG\YESGST VFPPSGAQDLDPLFLPAGLL KLFLKCSGPLSL
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEEASEEVAVTLIYQLA ESPTVICAQIWQGCQALEKL EEKRTSQGDPKESPTMLPTFLL MNLISLAGDVALQQLVHLEQA VSGELCQRRVLREEQEHKTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNSGLYSNP LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPPIVRSNLIVA TGDIAIHFPNLVDPWTPHLYAH LQDPAQPVWKTVGLVMTHLIL KDMVKVKGQSKAL/RKMLGNF DCFGDKLSDESIFSSFLSVMGKL QHGAKEGKAIIDEFEQKLQAC HARGLDGIEELEINQAGSQRAP TAKKPSTVCRHQPLASAASDN DFVTPEPRRTTHRHPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKLRVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQGEGNLQL NFVTIATKLEVSWTELGGGCVS ALFASVGTKREKAGFYQGCSF ASNIMKRGRVKEVEDVQKRLI KMTVEFNLAWSLPPHMANM GDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHLPLSPEEL LKSGGVNQYVVQEVLSIKHLPP QLRAFQAFAAQGPLAMLQHF DTIYSILHHFRSIDPGLKEDTLEF LIKGVYGGVVSRSQELPAIL DDTTLGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAHGFDWE EERQIPILQLLTQLQLDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQKNRPTREATHLLGVA LTRYNHMLSATVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVFLPFLFCMRPFAF WQPLPEPLELRPARLSD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLDLALKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLLPFYLGEKDDVTYAIYFT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEPPD PTGNRTVQLTWQPLPEPLELAC*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKFIGGLSF ETDESLSHFQWGTLDTCVV MRDPNTRSRGFGFVYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYKIE VIEIMDRGSGKKRGFAVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQGRS GSGNFGGGRGGGFGGNDNFR GCNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHAPHAVNKIALSLNNK NPARSKVLFLELLAAVCLVRGG HKLFYLAFDNFKEVCGEKQRF KLMEHFRNEDNNIDFMVASM FINIVVHSVEDMNFRVHLQYEF TKLGLDEYLDKLTHTESDKLS VQIQAYLDNVFDVGALLEDAE TKNAALERVEELENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKGDDIAILP VVASAHCPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTPVQKEKSEETRLEW ARRMLRRDQHSTKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTLSSLVEIGSKAAL GLVCGEKQRFEKLMEHFRNED NNIDFMVASMQFINIVVHSVED MNFRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLHYSISNVVK EQYHQVSLFYNELHYVEKAAA VSLENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNEGK LKKLQDDAKIAQDAFDDVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEED/NMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRK\RQVK\DNR HVVYEGKDGAIEDIITVSLENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNEGKLKKLQDD AKIAQDAFDDVVKYFGENPKT TPPSVFFPVFVRVKA YKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRRR\ PLGRRDGTFNYS PDVYCSKYNE ATGVCPDGDECPYLHRTTGD ERKYHV\RYKYKTGTCTHETDAR GHCVKNRLHCAFAHGPLDLRP PVC DVRELQAQEALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQC PKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGDEWGEPS RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHHVGH SR TINPEGDKPSRLGPAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDMRQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSSTGSGQPGNAKRRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNH LA VFAAVHPPAPSVS SSVASSLASSAGSGSSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTRNVGGGP AARPAMTLAREPQLLVGGCP TRNCSGPAASPQQLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFPSLCVCGLP VHLLPSL/HFLSQVLNEYFHN V CELDLVFNFYKVECFPLKSPVV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARAAVPA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGQGRSDGGGQ GSPGGGSQGSPPGGSGGVGQGS RGGQKPGGGGGQGS PDGGGR PLAGGASGRRGSRGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFLQAVV LGDPSAAQCQDWTLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEGKVFIINANSS SSFQIIGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNL
9561	39929	A	9621	1	822	MKLGV/QVVITDHEKLDQIRQR ESD\ITKERIQKILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANS\KA HTSASIILRGANDIMCGEMERSL HDALCVVKRVLESKSMVPGGG AVEAALSIYLENYATSMGSQKE LAIAEFARSLLVIPNTLAVNAA QDSTD LVTKFRAFHNEAQVNP EHKNLK WIGLDLSNGERGDNK QAGMFEP TIVKV KSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHHLLRYHRPG HMGRRLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHYSR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTVMNWFKE DFDFVTLCYREPDNVGHRFRPE AENRKLMIQQIDRTIRPWDDHR EEETQCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPVIMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGPANLDSTQDLPQRRLSW PYPRPRPPNAHGPALQPAPRTL LLTLPPGPAPSLPRTALGPPPL QSRPGFRPVSRQRCGPAHFMAP EENAGTELLQSFERRFLAART LRSFPWQGGGGAERPAGLAG VQGQTGWVSVLKPPALLPREFL GSPRSGPRDPVPVPGA WPKSLA PLLPRELAAEDEGVSTALGGQT RARCGVQFTIIFTTF
9566	39934	B	9626	1	1177	



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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLK\PETKQEKKWRL LAQAE/SVGKGDLPKRLPVFR AGVNTVTTFVDNKKAPLVVTT HDMPIELTVFLPVLCHKMGA TCCIIKGKARLGCLVHRKTYTT VDFTQVNSEDKGALAKLVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRL\QRQRAILYKRLKEPPAIN\ QFTQAL\DRQTATQLLKLAKH\ YRP\ETKQEK\KQRL\LARAEEK AA\GKGDVPTKRPPV/LFRAGV KQSPPLVE\NKESFSLVVISH\ VDPIELVVFLPALCRKMGPVY CIIKGKARLGRLSHKKTCTTVA FTQVNSEDKGALAKLVEAIRTN YNDRYDEIRRHWWGNNVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWCKFVGFL SFRGHMQVAWEADRCKGPGRP LLAEALQDLWSPRRSQRPVP ERPCRRPQQSPLPRFGSLAPLH RENNFIKDFPQLADGLLVIPLPV EEQCRGVLSEPLPDLQLLTGDIR YDEAMGYPMVQQWRVRSNLY RVKLSTITLAAGFTNVLKILTKE SSREELLSFIQHYGSHYIAEALY GSELTCTIIHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRRTQF LWKNNHLITKQTVSILSCGEAFI LRKGQQISFSSDSQLLSELEFLR PGAGDQSLPHTLVKVIPTFPQFS L/LCEMGTFILFCNINCAWGRG RGERYSQSC

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9576	39944	A	9636	3	4091	FASASAVSAAASSSFATAATA AAARSTAAPPAMAAAGARLSP GPGSGLRGRPRLCFHPGPPLLP LLLLFLLLPPPPLLAGATAAAS REPDSPCRLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLDNTELP FFTLEMSGTAADISLVHWRQQ WLENGTLYFHVSMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKIKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPGTGVLGAADRLSAS NPLKWIKTLGSSVISMIVLLIC VVCLCVVCRCRS*LLREVAHRD KAFAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMIVLL IC/VCLCIVCRCRSRLREVAHC DKATFAFIIESEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEK\LLAACAI AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFTPTFTSNQ ISAAFREPQLLVVTDPRADHQP LTEASYINLPTIALC\TDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDCVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPPQPL\GHQTCAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFLPLWIGLKAR HCSCGLRQRQVSWQETEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLLA VKSEPGRFAER QAVRETRRKPTS\GIRLLFLLGS PVGEAGPDLNSLVA WESRRYS DLLLWDFLDVPFNQTLKEP/VL WLPGWAGPCPTGSFVLRAQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPFPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVRP LGPQASIRLWKQLQDPRLQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPPTGPNFRYSHGVPPHLF AYFPPGSTVSQDNSFISPLQHI FERVRQSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGTAVVKIQ YPGIAQSIQSDVQNLAVLKMS AALPAGLFAEQLQALQQLA WECDYRREAACAQNFQRLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTCLRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFETKAF SDAHVEAVMILGEPFATQGPYD FGSGETARRI\QDLIPVLLRHRL VSP\PEGDLWPWHRKL\AGAFL ACAHLRDHIA CRDHKPGHLPPL LGQSPARRSHCRQPPHQRGTPG WIPHDSLHGGFSPQSRPYPAVV PLIPSPSALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TSPLESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*KT*TSGKPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVGVQ NGPTHQKFIMDKHPEITYVSDE SYQNAKL\DLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATAACEHSTASQG RASRTVTDSADPHPRSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSA LRGLRCGP RAPG PSLLVRHGSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTL\VG MKMLQAPE SVLAEHYQ\DLRRKPFPPCPSSR YMSSGPVVAMVWEGYNVVRA SRAMIGHTDS\AEAAPG\TIKGV DFS\VIH SRNVIHASDS\VEGAQR EI\QLWF\QSSELVSWA\DIGGQH SSIH PGLRLRAALTTPSPTQDPT YPPLARTPSPTSKPALSPNPLTS PVSPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPSLTLPL RRAGSSPGLMPVEEEMEIDE EK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQGQKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAEKDSPGNSSQVLPT ACKRNNEEAMGNELSSQQQTE EHQHVS KR CYLKEHGDPQEG LHDHLGQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLSNVKVS QAA TE PQTIISP PNALQEP SGIE WEQFPKAQIPSEPQENLC PFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLC PGEEGKRHELRS GSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVETLCIYAKQLPH KLI AKLRLLKGTRPLSLNNEHIL THPGLEGWLHTEFFRILSINNKY HLSAYLVQSIVLHVMGFHRKT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNV RDQFN SHIQL VRNGAKLSSLPQIPTPLPPPSE TSCFR CFNPVPLWLLGCPSPLG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCC TTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRET DVNRKR GF KISKTL YLYSDIYSCHVHFYYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQPSSNPYSHFT STPIRDLHASGVSTQSLSGSSD ALLHWAGHNAHG YAQCRSPLL VFPNPEPCFPFAQPAFLTPSWLP WQK*PWLGFPCQPPRSTHAPCR LHPTSPVGLGGVKASAETPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLLWMGAGVLP GTQHGIRLPLRSLGGAPLGLR LPRETDEEPEEPGRRGSFVEMV DNLRGKSGQGYVEMTVGSPP QTLNILVDTGSSNFAVGAAPHP FLHRYYQRQLSSTYRDLRKGV YVPYTQGWEGELGTDLVSIHP GPNVTVRANIAAITESDKFFING SNWEGILGLAYAEIARPDSDL PFFDSL VKQTHVPLFSLQLCG AGFPLNQSEVLASVGGSMIIGGI DHSlyTGSLWYTPi
9603	39971	A	9663	1	902	MSAKEKGKFENMAKADKVHY VREMPTYIPPKQETKKFKDPN APKRPPFS/SEYCPKIKG\EH PGQSTGDVAKKLGEMRTNSA ADKWPEKKA AKLKEKYRKDT AVYRAKGKPDAAKKGDVKA EKS KKRKNEKDEEDEDEDE DEEDDDNEYADNECTGFS GFVYKTFNSPVHNSLFLN VEIHALGFDELLESIFCILL VVEVFSLQKGVAMLEEV VVNGERSGRSLPWLPAAPS LPVPVPLGLRHPPSQSDN HSLQLTFLTALRLLRPL LGAVLEETVEDGRTKTNLP DENSVPFSPET
9604	39972	A	9664	146	733	LNMGKGDPPKPRGKMSSY AFFVQTCREEHKKKHPDAS VNFSEFSKKCSERWKTMSA KEKGKGFEDMAKADKARYE REMPTYIPPKGED/TKKKF KDPN\APKRPPSAFFLFC SEY/RAPKIKGEHPGLSIG \DVAEETGEEMW\NNTA ADDKQPYEKKA AKLKEKY EKDIAAYRAKKGKPDAAK KGVVKAERSTRPRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSAQLTITSIPP WAVE/WGNVTLSVQGIPQNLIS YNWLRGATTNQVTRILNFNFFS HGYTLGPAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGEKV AIMLCYLSLLVAPWHFHKTPR WRFPGPRAASQRASCSQPQS WSSGCSK/VSQAALYIQKIQEP QKNQDLLLSVQGVPTDFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFNGSM LLRRAQPTDSGTYQVAITINSE WTMKAKTEVQVAEKNKELPST HLPTNAGILAATHIGSLAAGALL ISCIAYLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEV PSPVLLVSPISDTRSINPARPLPT PPHLQAEPENHQYQQDLLNPDP APYCQLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHCIQKEYSKNYGKYEEGNE MFFKEFNQYLTSALNITLESSIL LQIKHIIRNCLLSVEPAISTKHL P/YQSFQLFGDFMVDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAVGIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDVTFKVISREERQTQRL GSSSPKRCPLEQEFEHEYSSFFG RNCLLSVEPAISTKHLPLYQSFQL FGDFMVDEELKVWLVIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCQQHSRQPTALAEILLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKIHR

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9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSKTRILRGKCF QLTSPTGNEPSHLSWTPRKRSR DGHGCPDPLAASGARPLRSSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVISAFSKEGMF RIFSERKTLLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSFGQ KGLGDRAECEEMSENPKGRKK PKAPQEVSFRENGNWKTPSIF SPKTPRKKKSFSKEELMS\SD\LE ETRWQAPSIPKRKKSTPKEET VNDPLE\AGHK\SGSKKKRKF K\EEPV\SSGPPEEAAGKSSSKK KKFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYSI QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR/VLKDSKDFDAN DPILKDQTQEWSGSATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDEDEESDLFMEAPQD RQAGASVKEESSSSKPGKKIPA GAVSVFLGDTDVFGAASVPSLK EPQKPEQTPRKSPYGPPTGLF FFSAPHSKPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTLSSKNLKP SSETK\TQKGLFSDEEDSEDLFS SQSASNLKGASLLPGKLPTSVS WFDDEDEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQPAARKPNMTSKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS MYNSDTDEDEETEPSSSQI ENSI TMNKMKLLKAKMKNMNL SKKHITQVSDEEEDDDGCDL FADSE KEEKDIEDIEENTRPKRSR PTSF ADELAARIKGDVGRVDEE PTTVSYEDDRRGKNQDAYTE GGLSTIKTVNCSSSL\PSGE AKLRKTL/KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	



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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKDNDPDVDL FAGTKKTKLLEPSVGSFLGDDE DDDLFSSAKSQPLVQEKKRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQ\AHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TAASQIS\EVKPVLP\ELAF\ PSS EHRRSHGL\ESVPVLP GS GEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARRLAAQESS EAEDMSVPRGP\IAQWADGAISP NGH\*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSFPAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQSRDLPPPGW KQRPRSGKQPRKRSP*QPKHP LPKGRTSSPW
9626	39994	A	9686	1	4086	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQLQEFSSQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEA VNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITLTN VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYISKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYISKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPTGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLCLKFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NERPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGTIFYKHRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSFY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWKGDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
9636	40004	B	9696	1	3420	
9637	40005	A	9697	1	3579	MPGHNKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLNRNCIDDLKPPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGPTREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	1	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASILIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNK WKNIP CSWVGRINIVKMAILPKNILITL QLLLVLPELSTLIPLWLPALAGQ
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHIHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

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9652	40020	A	9712	1	3335	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKEIETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHIVGSKALLSKCERTEITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQRS KIDTLTSQLELEKQEQTTHSKA SRRQEITKIRAELEKEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKAGVAILVSDKTDKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
9659	40027	A	9719	32	583	GPHGAFTHGRR/RFGDRDPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGEKDIPGLTDTMVP CHLGPKRASRICKLFSLEDDDD VHQCVVRKALNKEGKKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAAEYAKLLAK RMKEAKEKHQEIQAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGVEGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPNMNQLASLGKTNEQ SPHSQIHSTPIRNQVPALQPIM SPGLLSPQLSPQLVRQQIAMAH LINQQIA/S*PAPGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGPVCPKLSLQ EWHSTAHRNLKTWKKD
9662	40030	A	9722	15	272	KPQWP GIPSGPPPGSCFKC*KS GHWAKECLQPRIPPKPCPICAGP HWKSDCSTHLAATPRAPGTLA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQPKHLTDFKSGSC FKCRKSGHWTKECQQPRIPPKP CPICAGPHWKSDCPCSPAATPR APGTLAQDSLTDSPFTDPKGSLI DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AADAIQMWVPVMRTWRLNE RHYGGLTDLGKAETAACHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGPIVC KLDKSSKPIRCMEFLGDEGTLC KAMEAVAAQ GKAKK
9665	40033	A	9725	2	801	GGVPHQPAAAMAAYKLVLIRH GESAWNLENRFSGWYDADLSP AGHEEAKRGGQALRDAGYEFD ICFTSVHLY\AIRTWTVLEMP\A SEMWLPVVRTWRLNERHYGG LTGLNKAETAACKNGEAQVKIW RRSYDVPPPPMEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWNEEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEAI MEL\NLPTGIPIVYELDKNLKPI KPMQFLGDEETVRKAMEAVAA Q GKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS V\VTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTCRIMRPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPEEETMDLKEEKEEIPPEL RDQKLMHVLKDLEPVSAVPHK DSLFIGQLTTVPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTIRPKITKMDFKKSKL TLVVVEDDDQGREQEHTFVFR LDSARTCKHLWKCAVEHHAFF RLRTPGNSKSNRSDFIRLGSFR FSCFS/ERENAHSTGNPALRER PGDGSVSREGRWVDEGWQRP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFGRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGPLGQRRRA SINQFCKEFNERTKDIKEGIPLL TKIFLKPDTGTFEIKIGQPTVSYF VKAAAGIEKGARPT/DLSSEefa AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLGN VLGQRGVSINQFCKEFNERTKD IKE\GIPLPTKIL\VKPDARTFEIKI GQPTVSYFLKAAAGIEKG\ARQ TGKEVAGLVTLKHVYEIARIKA SGLRAFALQDVPLSSV\VRSIIGS ARSLGTSGERTSSSEELAAFQ KERAIFL\AAQK\EADFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPRGGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRFRLRTGAAVRYK VMKNWGVIGGIAAALAAGIYV IWGPITERKKRRKGLVPGLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLKALSCQEVTDDEVLD ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHELF HVITSSLEDERDRQPRVTHLFD VHSLEGHPLTLDHCLHHFTQSE SVRDVVCNCTKIEAKGTLNG EKVEHQRTTFVKQLKLGKLPQ CLCIHLQRLSMVQP/ GTPLKRHE HVQFNEFLMMDIYKYHLLGHK PSQHNPKNKNPGPTLE/HAGW AGSPHTSSESARGPQNTDFYEW RLLPIFIANAVSADALPSPCSR LQLLHIPLPADGQLSSTMGDMA LWDTLFIYRRSPPSARNPLSTSN QWLWVSDDTVRKASLQEVLS SAYLLFYERVLSRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAQIQLGPLLQRV QAIRLGSFHMVLSLW/VMQSAR VEILEPPRLQRMYGKAWRISL CPQGLSTVMRSELTASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGLAKLPANRNQSPGVSG KRLVNCVSASAVDSEPAAVPEP DVCAGIVIKKQCFPIARCNT KQVDSIPHRAAYAKSPFFPAVV VVTSESKDPRVKQNPTHLLAE GSNAAHFHKTISQSLKWLPVG YLNSTTYEYRDLTKGLSLLCSL LLGVEADIPSMAGLHVRHLMQ VPQQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPSVQL SSLRASSTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGMLTF VCAGDSSKLSPDITLVRRLTS YLVSASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMHQNQGSLEWTEE
9673	40041	A	9733	44	282	FSCLILHDAFPCLILHDAFPCL CSVTGSLVLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK



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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAARVSRTV KRVLC E/VVECPLKSACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGVSKKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHNHPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRICLNSTCFRPGKGLVIK/C EKSINSASLVSTSQRISCRPKTHI SKNYGNNFLNSSLLTQKQEVH MREKSFQCNESGKAFNYSSVLR KHQIIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKKPYKC NDCGKTFSQELTLTCHHRLHTG EKHYKCSECGKTFSRNSALVIH KAIHTGEKSYKCNECGKTFSQT SYLVYHRRRLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMAFQYWVLKLLVV KSA/SWPRQSSLKWNWNFKGC QDLETWGKKETRKFYGYRRNE EAQKYSCRIPRKPDP*WCHCWQ W**WLMAFQYWVLKLLVVK AYGLVKALSNGIGISKVAKTW KPGGKKRLENFMAIEEMKKHR STHVGFPENLTNGATAGNGDD GLIPPRKSRTPEQQFPDTENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEKMKGLI SMNLVVEEEMKKHESNNVGLL ENLTNGVTAGNGDNLIPQRKS RTPENQQFPDNESEEHSLGDK SKTSFQNSNNNNNKQEQQQQ NPTFSNTRKLTCLYKAPIPPSIIL SGCPNINDSNWQEIIEHGMQTA GLPTRPLSHGLQKGAAFRCCLG CKCSEPFTGSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTAVGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVGPDGGLISEGVV REDLMCGVWSAGTWSVGTA RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSTDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRCFCRACDLV HNF\DTIILQQHRTLTSQGVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEAAKRPKSAWL\ LLGYDSRASGLY*ILYNLTKHP D/YRECCQPMQES*S*RRTAR GPQQTSTDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVGPDGGLIS EGVVREDLMCGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEEQE VPSKHPQMALEICLCLDFLYY/L IPEGRCFCRACDLVHNF\DTIILQ QHRTLTSQGVDDFLKAKATFK ASDFIDALVLSKVASPGS

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9680	40048	A	9740	1	380	KFSRPSVNMLRIVKPCITRG/YP NLKSVNKLIIYKHGRGKINKKRI ALTDNTLIDQSHGQYGIICIEDLI HELY\LWPFKLSSPQSGMKKKT THFVENGAAANREGQIHRLLIR MNCGVYRDYFSNLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSGPGPPR PPRPPRPLPWHAPPAHGA PLARPGARARRSEKPPSEK PRLRRSSPRAQEEGPGEPPPEL ALLPPPPPPPTPA PRRPRRP PGPGRAAGALGDVPEAAEAYLERVPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVFRQL HLRTAVTAAVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKA WASSCDRIKIPVPEATFVEPNCLPGEI GQLLRQLQSGRNLKEWLREQF CDHPLEHCEDTRLHDAAYVGD LQTLRSLQEEYSRINEKSV WCCGWLPCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIKVVPAMFRSRKAIPFLS SCTAWRCADELQFIQVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEKHGGLVKKILETKKD YEKLQQSPKPGEKPSATGWHG ECLGTRNRAQGALVGWGWLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSETFRSRAAPENPL GRWGFALLSKIIS*RQVLAKLHF SLSPQARVNSRFP GSGKAGLGLWMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNREGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQQDKICAVKANI LKNEEKIQKMERSLFESA WKKEKDIVSKEIEKLRTSIQTLCKSAL

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9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELLQIIGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGNRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRRVKN GEHSWDL DREKNREHDKPEKK SASSGEMSKKLS DGT FKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSE\VPETPEIPNELSSNIRIRP GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIEMV TAVELEEEKHGGLVKKILETK KDYEKLQQSPKPGEKERSLFES AWKKEKDIVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQM\YHSENRRQHAELQQ EQRITDCAVEPLKAELA\ELEQ LIKD\Q\QDKICAVKANILKNEE KIQKMVYSINLTSRR
9688	40056	A	9748	93	800	RANLPTQPYCHCLAPAALTRI VGGSAAGRGEPWPQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVYGDPA/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRRT/SL VRPICLPEPA/HATPDGTRCVIT GWG/YGS/TGAQLQKAAVRLLS EQTCRA/LYPVQISSRMLCAGF/ LQGGVDSCSGDAGGPLACREPS GAPVPGQPRCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSSD*PAQETS/PP ISNPDPPTEN/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPPVLCSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RQVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	
9693	40061	A	9753	1	2283	MLPNRLGSSETITDAELRVTLT VEELNGLRAVQDMFVKILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRKKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVLVLWEWLPDQNPLS GLTKSNSTRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTMPSGSHCPE SPSDGPGSSLVALVWFLVED WLSRKRLESEPAELPLGKAGEV VFDTLPLPSRRTHFSGFLGHFCY SFSDGYSTNRAAPDGSSTKA EK HGSCRKQPPYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETSL VVHLELPVFPSFLKRAGNSRHS GMGSPLEAEEAYSTVVMADVS QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRRTHS/QAEEAQR PEPDILNHVFDDVESF/VSRLQK SAEAARVLEHR/KRGRRSRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTPRE/RRLWTSLGDSWTRPG LELSP EEGPPY/IPEFFSGWEPPV TDPQSAPGRTQLRNSYSTSGGA
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGLQSGLPHYSGYHTSSS* LYLSDPADIHPISP
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLQKSAE RPGCWRRRTRPQKPAGVAG* RGTWRGI*TPPDFLQMSPLSP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEC/PR VPSPLREGRKTQAALSVRRGRS HRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLRLLLPCPPPLPSKPNS LP*LRPSLLQRDYLIFILILNMP SISSTTMLLYGQKEISSLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRRSRRRAAGEGLTLRAKPP SEAEYTDVLQKIKYAFSLLARL RGNIADPSSPELLHFLFGPLQMI VNTSGGPEFASSVRRPLVTS AVALL\GNNVTPRENELWTS DSWTR/LRA/EELSPEEGPPYRP EFFSGWEPPVTD PQSRAWEDPV EKQLQHERRRRQQSAPSGRCQ WVTGDLEPESEPQLESETAGK WVLCNYDFQA\RNSSEAVRSS GDVL\EVL\DDSR\KWWKVRDP AGQEGYVPYNILTPYPGRLHH SQSPARSH\STPPPPAPAP/VP/ LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQ ARLAQGRSGPSRAVPGPRAPEP QLSPGSDASEVRAWLQAKGFSS GTVDALGVLTGAQLFSLQKEEL RAVSPEGG\ARVYSPVTVQRSL LEDKRES\SELEAVMEKQKEEG GRRGGNGGHLTCQAPFAKSDE APWENGPPQTLPSGSRSSSEGW PICSGPGLPPLPVDRLNDPCCSP SGEDLDWLGVGRAWRQSTESA SRPPRGCSGALSIVILRPSINMP PCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGAC PASADLKHSDGTRTCAKLYD\C SDPYYENCCGGAELSLESGADL PYLPSNWANTASSLVVAPRCEL TVWSRQKGAGKTHKFSAGTYP RLEEYRRGILGDWSNAISALYC RCS

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9709	40077	A	9769	1	1489	MPQLLNINGIIEAFRRYARTEG NCTALTRGELKRLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQQRSGTEVGRAGKGQH YEGSSHRQSQQGSRGQNRPGV QTQGGATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNQTTEMRPERQPQTREQ DRAHQGTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTSA VTGGHAQIQAGTHTQTPTQTVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTSAVTGGHT QIQAGSHTTETVEQDRSQTVSHG GAREQGQTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSTHPRRCVTEGQGD RQPTVVGEEWVDDHSRETVILR LDQGNLHTSVSSAQQQDAAQS EEKRGITARELYSYLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSK ETVMAPENLTN*RAPPQSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHQLSHSSSESSSTLGSL LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTRLRKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDADPDSPVILEIPSLPPSTPP STPTYKKSRLSSDQIRRLNLQE GANDVVFSTTQYQGTCTCKA TIYLWKWDDKVVISIDGTITK SVDALGHILPQLGKDWITHQGITS LYHKIQLGQLVMPLDARPERP MDGMKVRAFMERLLFVRRGT DKRWSVRMYVTCSQSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTSPCPSVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLLHPARAAPPPPLVGPGP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTGTGKEPGGTRHPTRMPLG STGCIFPGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDGTSDIPERARQNEEQL TSFGLLWPTPQGSTDHIDNHPR ERYPEMRWELDVPLPDIDYMEI PVDWWDA
9714	40082	A	9774	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPVPEHE HSPDAVQSQRLAHALNDMIKE FISMGSLVALIATSQSQQLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKCDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDLQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLGQAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLGLL*P*KQGHCHSVSL GEVRI/CGIIS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	



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9718	40086	A	9778	1	6504	MWGSDDLRLAGAGGGGA AVTVAF FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI FVPVWDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKVPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNC S*L*KAALNFVLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/ILLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLMSVWMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMTEACIKGGIEACYAAVS CVCTLLGALDEL SQGKGLSEGG VQLLLRLLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTPEDHSGNHKNSLK SPA IPEGKETLSKVLETEAVDQP D VVQRSHTVPYPDITNFLSVDC RTRSYG SRYSES NFSVDDQDLS RTEF\DSCDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRSLRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLP IVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAFEKLYFKSPAN QAHARKVGKQVQDCYIGRDIV AKAGAIHLNVGKGTPVCCPLL EEGINSEVWTT EGQYGRAK\NA RPVQVKLKDSTSFPYQRQYPLR PKA/LTKGFQKIVKDLKAQGLV KPCSNPCSTPILGVQKPNRQWRI EALKLQIVLQMEPQM QSMTKI YHGPLGRPASPCSDVNDIEGNP TKEISTAPLLCPNSAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPGDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNIDIT NFSSSWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIHW/LQAILEII TNKTDRALTILAQQETQMRNAI NQNLALDYLPAEAGGICGKF NLTNCLHVDQGGQVVEDIVR DMLKLSHVPMQVWHGFDPGA MFGKWFVPLGGFKTLIGVILVI GTCLLLPCLLPVLLQMIKSFIAT LVHQNASEQLYMNHYRSVLQ EYMGS
9729	40097	A	9789	3	876	GAGGGFGSPMDIFDMFFGGGG RMHRERRGKNVHVQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGGEYCPNCRGTGM QIRIHQIGPGKVQQIQSVCECQ GHGEQISPKDRCESCNGRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTRQGEDLFMCQIVKHGDI KCVINEGMPYPRPYEKGRLLIE FKVNLPENDFLSPDKLSLLEKL LPKRKEVEETDEMDQVELVDF DPNQRWHHYNGEAYEDDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDVLGVKPNATQE ELKKAYRKLAL\KY\HPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGGAGGGFGS PMDI\FDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTMQIRIHQ IGPGM\VQQIQSVCMQCQGHGE RIRPKDRCKSCNGRKIVREKKIL EVHIDKGMKDGQKITFHGED QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISLDNRIT\ITSHPG\QIVK HGDICVLENGMP\IYRRPYEK GRL\IIEFKVNFPENGFLSPDKLS LLEKLLPE\RKVEEETDEMDQV EL\VDVDFPN\QERRRHNGEAY EDDEHHPRGGVQCSDLLMGPV

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9732	40100	A	9792	3	337	GYSQAPRKR/GGECSSLSQPFSA AQPDAASLEPPSLETPAGRTPA TLTQGSPPAAVREPLSPGHNAK ARLRSRPARPPWIPDPDPPGHFV TDFCAPESLQGETRTSRSFQLL
9733	40101	A	9793	1	346	SGS*QLQMCSCGLPAHTQDETHI SSCGQLDLALPPLLPLPPSPLN TLPPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGPDPVGHRRKC GFHPVCEREAPSTFAAVMIHLV VQYIGEICRYLLKQPVREAERR HRVRLAVGNGLRPAIWEETER FGVRQIGEFYGATECNCSIANM DGKVGSCGFNSRILPHVYPIRL VKVNEDTMELLRDAQGLCIPC QAGEPGLLVGQINQQDPLRRF NGYVSESATSTKIAHSVFSGKD SAYLSRDALMMDELGYMYR DRSGDTFRWRGENVSTTDVEG ELSRALGQTDVAVYGVAVPGK LGLQGVVLRHGVGKAGMAA VADPHSLDPNAIYQELQKVLA PYARPIFLRLLPQVDTTGTFKIQ KTRLQREGFDPRQTSDRLLFFLD LKQGHYLPNEAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDPIYRFFKKRTELFIA AEGIHTGQFVYCGKKAQLNIGN VLPVGTMPGEGTIVCCLEEKPGD RGKLARASGNYATVISHNPETK KTRVKLPSGSKKVISSANRAVV G/VVSGSS*MLRAVGEHAVSAG GQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPGMFERNYPHPAITFKPS VPVSRSLDYAPLPGGVFRDPYW FKKRTLFIAAEGIHTGQFVYC GKKAQLNIGSVLPVGTMPGEMI VCCLEEKPGGRSKLSWASGNY ATAISHNPETKKTRVKLPSGSK KVVSSANRAVVGVVAGGGRT DKPILKACQAYHKYKAKRNW WPRVWDVAMNPMHEHPFGGNG HQHIGIPSAI/SRDDPAGCKMGL IAARQTGRLWGKTVQEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IIHDRGR/GAPLA/RVVFRDPYRF KKRTELF/IAAEG/IHTGQF/VYC GKK/AQ/LNIGNVLPVGT/MP*/G TIVCCLEEKPGDARGK/LARASG NYATVIS/HNPETKKTRVKLPS GSKKVISSANRAVVGVVAGG/G /RIDKPIFEGWPGRYHKKYAKR NC*PRIRGVAMNPVEHPF/GGG NHQHIGK/PST/IRRDAP/AGRKV GLIA/ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLLEVRQEETFSSIS DSQISNTEFLQV/KVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVFLFSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLEVRQEETFSSISD SQ/ISNTEFLQVIEIHNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIG/WYRFRNRNTQQQ/MSY K/EQVLHKQLTRILGVLDLVFL LFSFISTANNSTHALEYVLFRRPN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTSQQSYAKVIKEHGTD FFDKDGVMKDIRAIYQVYNAL QEKVQAVCADVEKSERVVESC QAEVNKLRRQITQRKNEKEQE RRLQQA VLSRQMPSES LDPAFS PRMPSSGFAAEGRSTLGDAEAS DPPPPYSDFHPNNQESTLSHSR M/ERSVFMPPQAVG/SSNYVAS TSAGFEVFLGSGADLPPQRAA GDSGEDSDDSDYENLIDPTEPS NSEYSHSKDSRPMAPDEDPN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSDHKY GDGGSTFQSTTGHCII/VHIEIGP DGRVTGEADVEFATHEDAVAA MSKDKANMQHSYVEPFLNCAA GASGTAYGSQMMGGMGLSIQS SYGGPASPQLSGGYGGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGQAALLELLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSSVCIKDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCPVGSASDEP CTGPCVCKENVEGKACDRCKP GFYNLKEKNPRGCSECFCFGVS DVCSSLSWPVGQVNSMSGWL TDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYYWAAPEA YLGKLTAFGGFLKYTVSYDIP VETVDSNLM SHADVIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPTKTSKSPGTANVLD VNNSTLMFVGGLGGQIKKSPA VKVTHFKGCLGEAFLNGKSIGL WNYIEREGKCRGCGSSQNEDEP SFHFDGSGYSVVEKSLPATVTQ IIMLFNTFSPNGLL\LYLGSYGT KDFLSIELFRGRVKVMTDLGSG PITLLTDRRYNNGTWYKIAFQR NRKQGVLAVIDAYNTSNKETK QGETPGASSDLNRLDKDPIYVG GLPRSRVRRGVTTKSFVGC NLEISRSTFDLLRNSYGVRKGC LLEPIRSVSFLKGGYIELPPKSLS PESEWLVTATTNSSGIIAALG GDVEKRGDREEAHVPFFSVMLI GGNIEVHVNPBGDTGLRKALL HAPTGTCSGQAHSISLVRNRR IITVQLDENNPVEMKLGALVES RTINVSNLVVGGIPEGEGTSLLT MRRSFHGCINKLIFNLDHGFVD SVEQKRFCGVPSCARESARGRA QAQDTAQELQSESACDKRSPQP PGKGKHMVGGVLQPSLQFN LLLFYDEVLDLQPNGKEKEFSV GANHNAFMVVHVGVCGLF PSGEWLASPCVHPQITIHPDR FQASVTDEGYLFLAKPTQPAPA CPLDPIRPLLLGHAQQPLTDQ HTDAAVTPSSAVTARAANYCA GGRNERKKTGREKRHLTGGPC VALRTFTVLHISHHQVDGIRA GYVQRDGLQPTNRQIVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPMEFCKLVEHVPGRPVNPQ CRICDGNSANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTTFSPWQYYA VSDSECLSRYNITPRRGPTTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLLEFTSAR YIRLRFERIRTLNADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVPFIGELPRHLDQN SEQLKQVVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTTSMDPN DMMREIRKVL DANNC DYEQKE RLLFCVHGDA RQDS/LPCQWG DGKSCQVGPRLS\LVNGV\RFKRI S\GTSYCPLKNIA\SKIA\NELKP VKKSQIYQVQGRYIH
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNL\QKHTVLIHARLSTV EHAHLIVVLDKGRVVQQGTHQ QLACPRAGFYGKLVQRQMLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQTMFTFTWNINHARPMVV EERCVCVNSDNGWTEIRREA WVSSSLCGVSRAVWEFLAQF KSNVTKTLKGFEYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPGLRNLINLGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVSTVELGHVLEI SSTHKKLQRESLMENFKKFHK EIIHELEKKIELVDVKYMNATLK RYQTEHKNKLESLEKSQAELK KIRRKSGSRNALKYEHKEIEY VETVTSRQSEIQKSIADGCKEA LLERERGASCFPGLNKHCGFA/ NTHIHYYHLQSAELLNS\KLPR WQETCVDIAIKVP\EKIMNMIEEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSPKMPPAPSGR AYTSPIDMFNNPATAAPNSQR VNNSTGTSEDPSLQRSVSVATG LNMMKKQKVKTIFPHTAGSNK TLLSFAQGDVITLLIPEEKDGWL YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTSPPTPVSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPPYPIPPVDRKEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVRLAFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVIFSIFNLVG*NISDCIILICQLK
9767	40135	A	9828	66	808	YCWQSQGAKPRDLLGPDLIPLN HSPRVSHLLCHRRHIRKAGGVFV ADEIQVGFGFVGVKHFVAFQLQ GKDFVPDIVTMGKSIGNGHPVA CVAATQPVARAFEATGVEYFN TFGG\SPVSCAVGLAVLNPLEK EQLQDHATSVGSFLMQLLGQQ KIKHPIVGDVRGVGLFIGVDLIK DEATRTP\ELKRHVYLVSRLE NYVLLSTDGPGRNLIKFKPPMC FSLDNARQVVAKLDAILTDE EKVRSCENR
9768	40136	A	9829	3	597	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9769	40137	A	9830	1	3281	MGFHHVQGAGLKLTSGETPQL LALVQHWVPGARLVEELPHEL VLVLPYTGADGSGFATLRFELD TRLAELRLTGYGISDTSLEEIFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAG\DGEPAGSAPETDQGSQPD AVGRVQGWALTRQQLQALLL KRFL LARRSRRGLFAQIVLPALF VGLALVFSLIVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDPGR ARLLEALLQEAGLEEPP
9770	40138	A	9831	1	684	RTRGPPPPQSRSGRRRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLLSPPVMTETRE PAETGGYASLEEDDEDLSPGPE HSSDSEYTLSEPDSEEEDEEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPRGTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIIGVVTVMGDGVLPV CVVLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKGDPEAGPEHSSD SEYTLSEPDSEEEDEEEEEEEET TDDPEYDPGYKVKQRLGGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTPPCRLCCPATAPQ EAPAPEGRALGEEEEEPPRAGE GRPAGREKEEEEEEGTYHCTE CEDSFDNLGEL\TGTSCCMPGV RCRQSPHTGSLAEGVGWEEGA EEIGVVTVMGDGVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGPVLVCGLL GTGCTAGAQLREAYTSSSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWVYVKRPN LRLIGVPKSDVENGTKLENTLQ DIIQENFPNLARQANVQIQEIQR TPQRYSSRRATPRHIVRFTKVE MREK\MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGPI FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTT/RPA LKELLKEALNMERNNWWYQPLQ KHAKL



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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDPSPFLAELLLMPSVIGL TPSYPSRFSSESTFLQEAFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHNSNGPTD LASMKGGAFTTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLLRSADELENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KGVQFQFSSYG*PVFPTPIK*G VLSPLFVFLRFLKDQMVVDV*H YF*GLCSVPLVYISVLVLPCCF FFTVAL
9776	40144	A	9837	2	350	YKVS KPKAQLCSQQVKYLWLK LSKGTRALSEERIQPILAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

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9779	40147	A	9840	1	2091	MVLVVVAVVVVVLVVAVIVV VVVVVAAVVVGAVVVVVVV MVVVVVVVVVEEDNQHKTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQQWIQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGELQTTAQQNKGGHK QTEDHSMMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAETF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGR NSPHLFGQALAQDLSQFSYLD LVLRYMDDLLATHSETLCHQ ATQALLNFLATCGYKVSCKPA QLCSQQVKYLGLKLSKGTRTLS EERIQPILGYPHPKTLKQLTAF GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGNFS LYVTEK\TGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPLEMLTEGPLAFELA MATARAELSLAIHHCLPPPPQ TRCWLPSLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSLPPFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVYFHGLYY
9780	40148	A	9841	1	1284	

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9781	40149	A	9842	1	1522	MVAPGSVTSRLGSVFPFLLVLV DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAAV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQRGHLLLKQGKLDEAEDD FKKVLKSNPSENEEKEAQSQLI KSDQMQLRSQALNAFGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPRKAISDLKAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKRC FAHYKQVKKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERICHCF\SKDEK\PV EAI\RVCSEVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHN\ENDQQIREGLEKAQRLL\ KQSQKRDYYKILGVKRNAKK QEIIKAYRKLALQWHPDNFQNE EEKKKAEEKKFIDIAAAKEVLSD PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNPFSS GGPFRFKFHFN
9782	40150	A	9843	5	519	LTCQEEHKKKHPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARCDREIKNYIPPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKGKSEAGKKGSKKNKPE DEEEEEKEDEDEEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLA AEKLDPRRDEAKR LRPQRNFNITFTHTGTVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLSAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPTGKRARSD SSLAKENNQKAYKETYGVSHIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPPAAAAA\LSASPGALER EARS PRSPQTADTSPRPRAPAC APSRARAMPSDRPFKQRRSFAD ARC KEVQQIR\DQHPSKIPVIER YKGEKQLPVLDKTKFLVPDHV NMSELVKIIRRLQLNPTQAFFL LVNQHSMVSVSTPIADIYEQEK DEDGFLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIER YKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFFLLVNQHSMVS VSTPIADIYEQEK\DEDGFL\YM VYGLPGKPFGE
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLAVGFSSFDPGAP SCTASSASGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVLMQDFYVVESIFFPSEGS NLTPAHHYNAFRKTYAPVAF RYFRELFGIPDDYLCSLCSEPLI ELCSSGASGSLFYVSSDDELIK TLQHKEAEFLQKLLPGYYLNLS QNPRTL LPKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKYDL KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIHNIIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARLGDTEADDHMGGIPAQ NSKGERLLLYIGIIDILQSYTFLK KLEHSWKAVVHDGDAVSVHR PGFYAERFQHFMCNAVFKKIPL KPSPSKKFRSGLSFSLHTGSSGN SCITYQPLVSEEKHSQVIK VQVE PGVHLGRSDVLPQTSE\PLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGRTGL KESQAAEGEGAAKMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPKKIGHR SVDSSGETTYKKTTSALKGAI QLGITHTVGSLSTKPERDVLMO DFYVVESIFFPSEGSNLTPAHHY NDFRFKTYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDDEFIHKTVQHKEAE FLQKLLPGYYMNLNQNPRTLLP KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHICYDLKGSTYK RRASQKEREKPLPTFKDLDFLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLMSIHNI DHAQREPLSSETQYSVDTRRPA PQK\ALYSTAMESIQGEARRGG TMETDDHMGGIPARNSKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER FQRFMCNTVFKKIPLKPSKKF RSGSSFRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTPPLEEISEGSPIDP SFSPLVGETLQMLTTSTTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIQ AGVQWCNLSSLQPLPTGFKQFS \CLSPLTSWDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPLNPSTLL AEVCVEQCTLMDSKMKPLWIM YSNEEAGSGGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNNRNMDGGNEEFTLSA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRPFILTY DFVHVIEQGKTNN/SEKFERFRG YCERA\YTILRRHGLFLHLFAL MQAAGLPELSCSKDIRYLKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQK LKVGQLGEVWVPLDKGGKLF KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGNLLF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQI FVDVSEE/EDH*EHRCS/CFHEF CIRGWCIVGKKQTCPYCKEKV DLKRMFSNPYPLLGSLLGVGCG KKVLASVTCIWVLLGPSLLPPT RTCQTMNNKKIMKVMMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPEEQWR VEHARMHAKHRGHEAMHAEM VLILATLVVAQLLVQWKQRH PRSYNMVTLFQMWWVPLYFTV KLHWWRFLVIWILFSAVTAFTV FRATRKPLVQTTPLRVYKWFL IYKISYATGIVGYMAVMFTLFG LNLLFKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCAVC GQQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIVGKKQTCP YCKEKVDLKRMFSPWERPHV MYGQLLDWLRYLVAWQPVIIG VVQGINYILGLE
9796	40164	A	9857	28	267	LNIGKGDSKKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAAKKGFI KAESKSKKKKEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQPPDASVNFSEF/S KKCSERWKTMSAKEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSS\FAFF\VQTCREEHKKRH PDASVNFSEFSKKC/SQRGWKT MS\SKEKGKF*RYGQKRDKAR YER\EMKTYPS\KGGDQKRSF KDPNAPQGGPPFGPSFLFCSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLLQ/SDKQPYEKKAA KLKEYEKDIAAYRAKGKPD AKKGVVKAESKSKKKKEEED EDEEEEEEEEEDEEEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSSDKSDTGVTGL FSTYFLKSDFQLQLIDISASTAS KSLFSAVLFAQEYILSFGLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGRTE TL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/IAVCCGCGQGLSG YLN GEGADGAERGGGSGVEG LRAPVCGQAASSLAASQLAAG GQAANHAQLRCLSPADCALML FIQVEVLTNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGGEGLGCIEDSAVAEGGIAI GGIVGINTALQEVLPHTIKMQ RNNAQLSRRKEPKGLCGERG QDRMSRAKGSSSKGKELPPGCR RVTMKPLL VRETQEGQAAERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEGFLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLKLS ED GKAKKAPYNTGPLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGAVQTAGF SNPPKVVIQIKWNFLVMLLNFP GSTKLIARLKQQMNYKEMASQ RLTQSMLPHRSRLIGAGPCNRC VHPEPVIVTLFGQKVFAHKKK QTCLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQPNCTARDSASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV PFPPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGPLPLEGS\PPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHPRPPA SRLPWL RATREEEAGAPKLGED SYPNF

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9802	40170	A	9863	2	624	FMGRRGTSTPFPLADNAPRGSP PGAHVVGWDPDLRRAPVTGF SCSGSCSQRGAAWESFPRSPP CRASGCASSPAECRMPATHLPG NSGRVPFPPGPVNYSPLRLQAP EQVTGS/SPWPFS/RPVLGPLPLE GS\PPPF/RLPPRPRPAGVAAGSS WGHSAAVRRSPGRRPEGESIH PRPPASRLPWL RATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPTNTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNPSTCKIQNITEKRGGSL
9805	40173	A	9866	3	441	QTNFKGCSKVTSSKLNMSLLW TPTGR*GCDRKVEQPPGDLGT AAVRPKSLAISSSLVS/ACSASK TQGTDLKTSSHPEMLHGMAPQ QKHGQYKTKSSYKAFASIPYK HIAFGTEDS/STTLPRAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDLFTVSGLLSLDSSGILTR NLEVSAN*VWVGSLLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGSNSV
9807	40175	A	9868	153	1624	TTRRKSMNPTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQQTEELCATID KVLQDSL SMAPSLSP TKQASS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPSSSLSLK SKQDGDLRGPENPRNIHTYPST LASSALSSLPPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPSALPSLPVSSADFASLP NLRSSS/APSCQSAHPGAPAQSL SSAPT CGSGTLP SRLGKSESTTP NHRSPVSTPSLSISLTRTEELISP CALSMSTGPKNKSKTPTTLPR AAGRETKYSKNDYLT LNAGS QQRDQAKLTCPSEVSGTILQE REFEANKLQGMQQSDLFKA EY VLIVDSEGEDEAASRKVEQGP GGIGTAAVRPKSLAISSSLVSDV VRPKTQGTDLKTSSHPEMLHG MAPQKQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	



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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAL DFSPGLSCLPVR*GSRRAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLLNQQ WVVRGSRAFGHRLKAALSGSL LLKFSDSDWLPCCSACRGPVIG LHLVIVYVKSHQNA YRHKNQL KQTLLSCNTTKVRSFIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIHKGPQNPPGYRLCPL QAVGGGEFGPTQVHVFPFSLSDL KQIRVDLGKFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGQWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWRTRGKCHSLEWR PCTVCSWPDSPPKVSAGQALCG SETLPLTQTPDIQVPATLES GHP ANLL\VSAAWKSRLSIFSWTW GTVISLGPRTPHFSEITIPLPWS HGSSITFQVTFPRFHVTTEMTIQ LNVSPVALENATSLSVLKNQS LRFVYVTDSPPARLSWTWEG QALNLSQSSESAVLELPVESC DGGEFVCQAQHPLGSQHVVISL SVQSDSVISIEGVLTGLGFTLIR GILMGTSCTFICGFTWICCTSPVI PKPGTQSCFSTRDSATLPDAG SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAAARCTAWSPG PLVTAVEKFEAEAAAALGQRIST LQKGSPDPLQVRMLNDQLMLL ERTFLNPRAFPEERYYSHV LWA /PSHGLRSHIPG\LSNACSRARDT ASGSEAWAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPSGQIRSPGPDLS IYDNWIRYFNRSSPVYGLVP\GF SSHQAVARTAGSVILRLSDSFFL PLKVSDYSETLRSFLQAAQQDL GALLEQHSISLGPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIYPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTAVEKFEAEAAAALGQR ISTLQKGSPPDHVLWA/PSHGLRS HIPG\LSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPPLRKALAV DAAFREGNAARLFRLLQTLPYL PSCAVQCHVG HARREALARFA RAFSTPKGQTLPLGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSG\LETLLMKGC WRKSKTSARIYPTYHTAFDFTD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERY YSHVLWA/PS HGLRSHIPG\LSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAAA LLGLGILGHFAIPKKANSLAPQ DLDEILETVMGQLDAHRIREN LRELSREPHLASSPRDEDLVQL LLQRWKDPESGLDSAEASTYE VLLSFPSQEQPNVVDIVGPTGGI IHSCHRTEENVTEGEQGGPDVVO PYAAYAPSGTPQGGLLVYANRG AEEDFKELQTQGIKLEGTIALTR YGGVGRGAKAVNAAKHGVAG VLVYTDPADINDGLSSPDETFP NSWYLPPSGVERGSYYEYFGDP LTPYLPAPVSSFRVDLANVSGF PPIPTQPIGFQDARDLLCNLNGT LAPATWQGALGCHYRLGPGR PDGDFPADSQVNVSVYNRLEL RNSSNVLGIIRGAVEPDYVLY GNHRDSWVHGAVDPSSGTAVL LELSRVLGTLLKKGTWRPRRSI VFASWGAEFGLIGSTEFTEEFF NKLQERTVAYINVDISVFANAT LRVQGTTPPVQSVVFSATKEIRSP GPGDLSIYDNWIRYFNRSSPVY GLVPSLGLSLGAGSDYAPFVHFL GISSMDIAYTYDRSKTSARIYPT YHTAFDTFDYVDKFLDPGFSSH QAVARTAGSVILRLSDSFFLPLK VSDYSETLRSFLQAAQQDLGAL LEQHSISLGPLVTAVEKFEAEA AALGQRISTLQKGSPDPLQVRM LNDQLMLLERTFLNPRAPFEER YYSHVLWAPSHGLRSHIPGLS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEFMSFVGTWM KLETIILSKV\CQGQKVKHHMFS LTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWM KLETIILSKLLQGQKTKHRMFSL IGSIIVKVPSSLQAHQLSLGKEV DVNSEVHVQEMAEARKDDVV TVTDAEKALDKIQHLFMVKTLS KIGIQGTYLNVIKAIYDKPTANII LNGEKLKAFPLRNETRQGCPLS PLLNTVLKVLARAVRQEKEIK GIQIGKEEVILSLFADDMIVHLE NPIVSAQNLLKLIDNFSKVSQY KINVQKSQAFLYTNNRQTESQI MSELPFTIASER
9826	40194	B	9887	1	352	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9827	40195	A	9888	3	430	FFFFLPVAGLRRPRPRLGPVPPR PRVPPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQPAPRPPRQGPNEGTD GSRCCPQP/WLEQKQSRWGP IAGHHPKPGKGTSSRSRQRE PRGPRDQRG
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFKSAGPGQK LKESVGVWGRPNGLMSVKG CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHSVGLRQSK HRAQDTLAQLQETLELVDMHP CGVTPTAPARPGKVHELWGEW RQRPP/REPPPE\QAELETLVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRSSVDALQTAF DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPEPLDLADLV DEVIGGPDPRWAHLDPAAQQR AWAEHRDGSNGDGDGMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHVFYSIPLIPRDNFS*GV FSSLDLITAVFVTLAELRSVT